minolta

HI-MATIC E

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National Camera
Technical Training Division
Englewood, Colorado, 80110 U.S.A.

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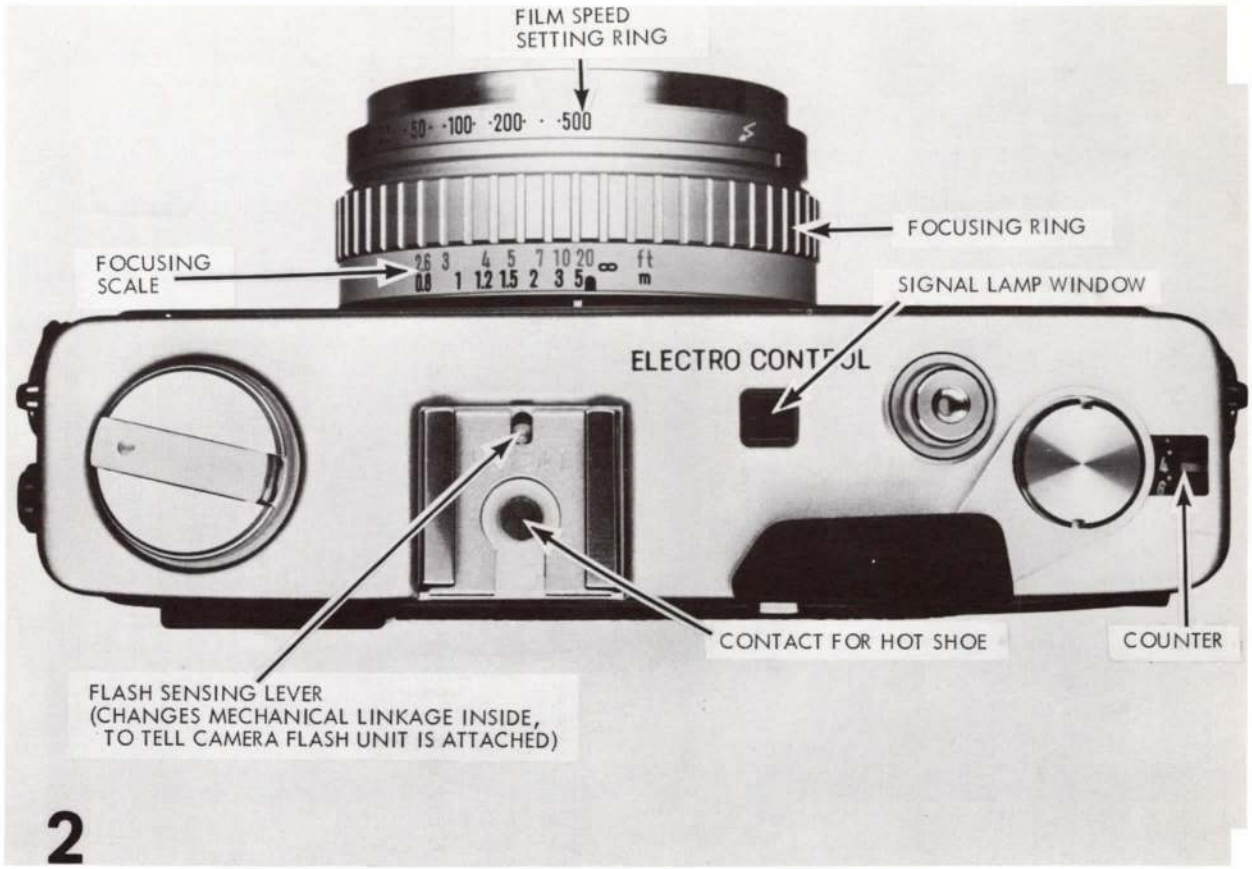
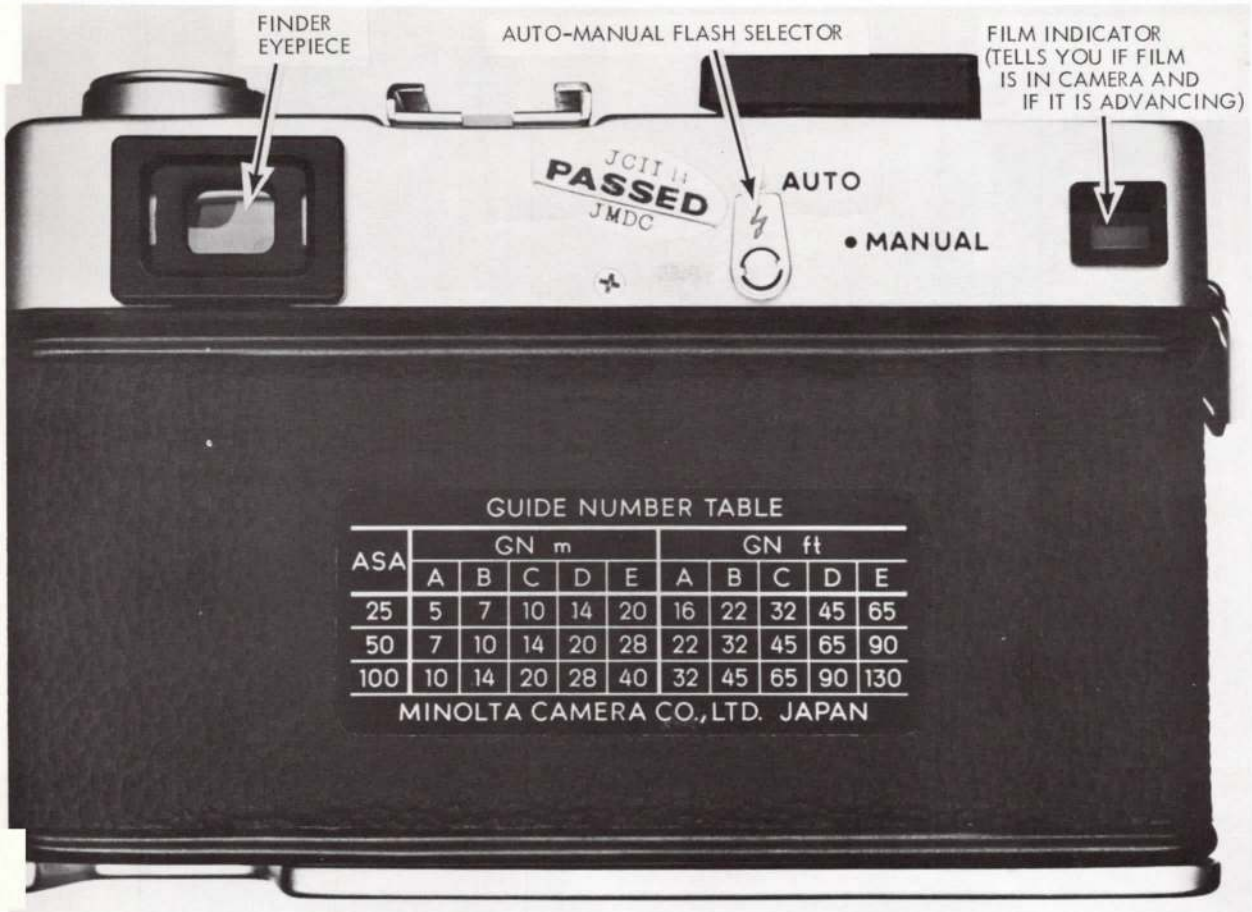
WIND LEVER
RELEASE BUTTON
WINDOW FOR RANGEFINDER AND PARALLAX CORRECTION
REWIND KNOB
VIEWING WINDOW
minolta
HI·MATIC E
FLASH PC SOCKET
MINOLTA
ROKKOR-QF
1:1.7
f=40mm
DELAYED-ACTION COCKING LEVER
CdS CELL

1


FILM SPEED
SETTING RING
50 100 200 500
FOCUSING RING
FOCUSING
SCALE
2.6 3 4 5 7 10 20 ∞ ft
0.8 1 1.2 1.5 2 3 5 m
SIGNAL LAMP WINDOW
ELECTRO CONTROL
CONTACT FOR HOT SHOE
COUNTER
FLASH SENSING LEVER
(CHANGES MECHANICAL LINKAGE INSIDE,
TO TELL CAMERA FLASH UNIT IS ATTACHED)

2



GUIDE NUMBER TABLE

ASA	GN m					GN ft				
	A	B	C	D	E	A	B	C	D	E
25	5	7	10	14	20	16	22	32	45	65
50	7	10	14	20	28	22	32	45	65	90
100	10	14	20	28	40	32	45	65	90	130

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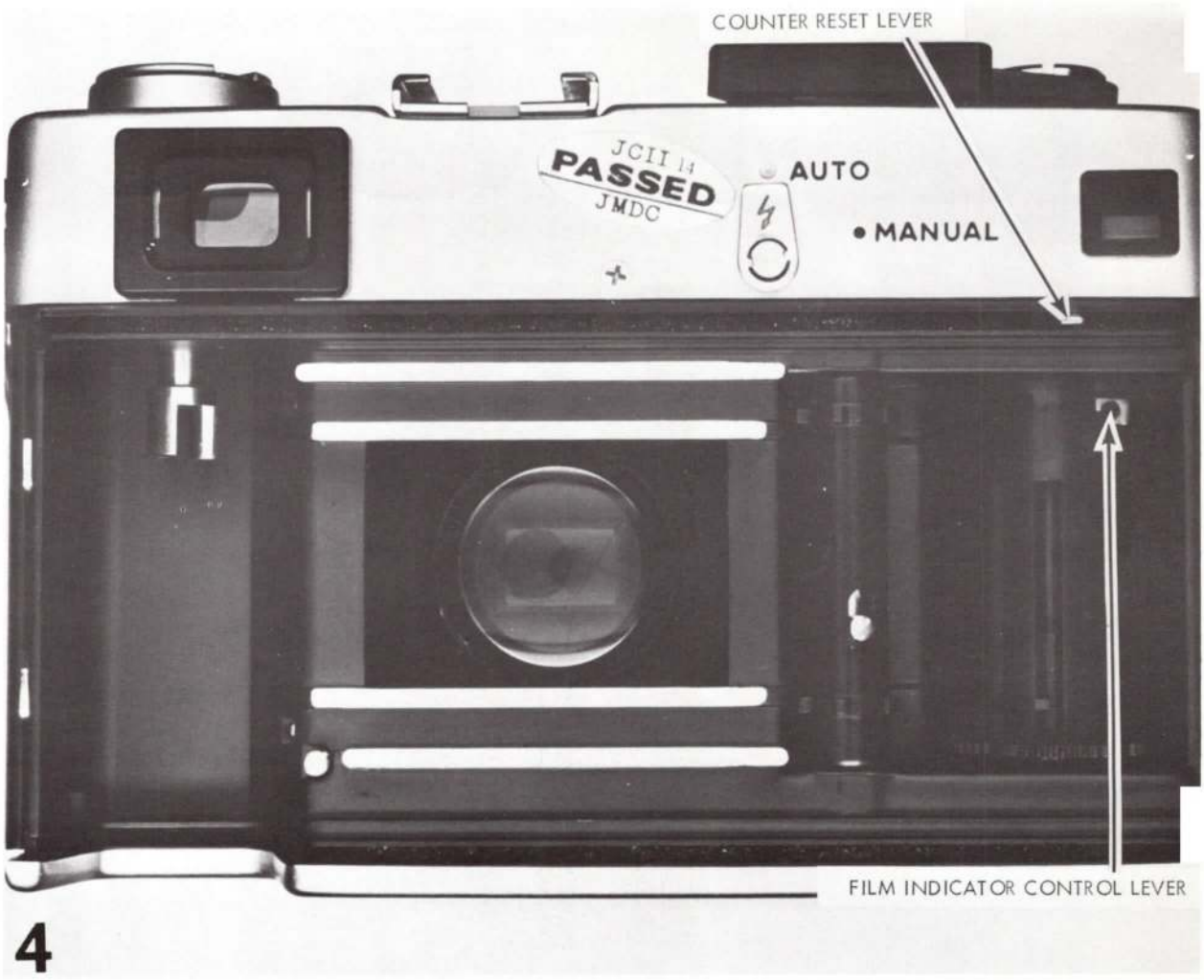
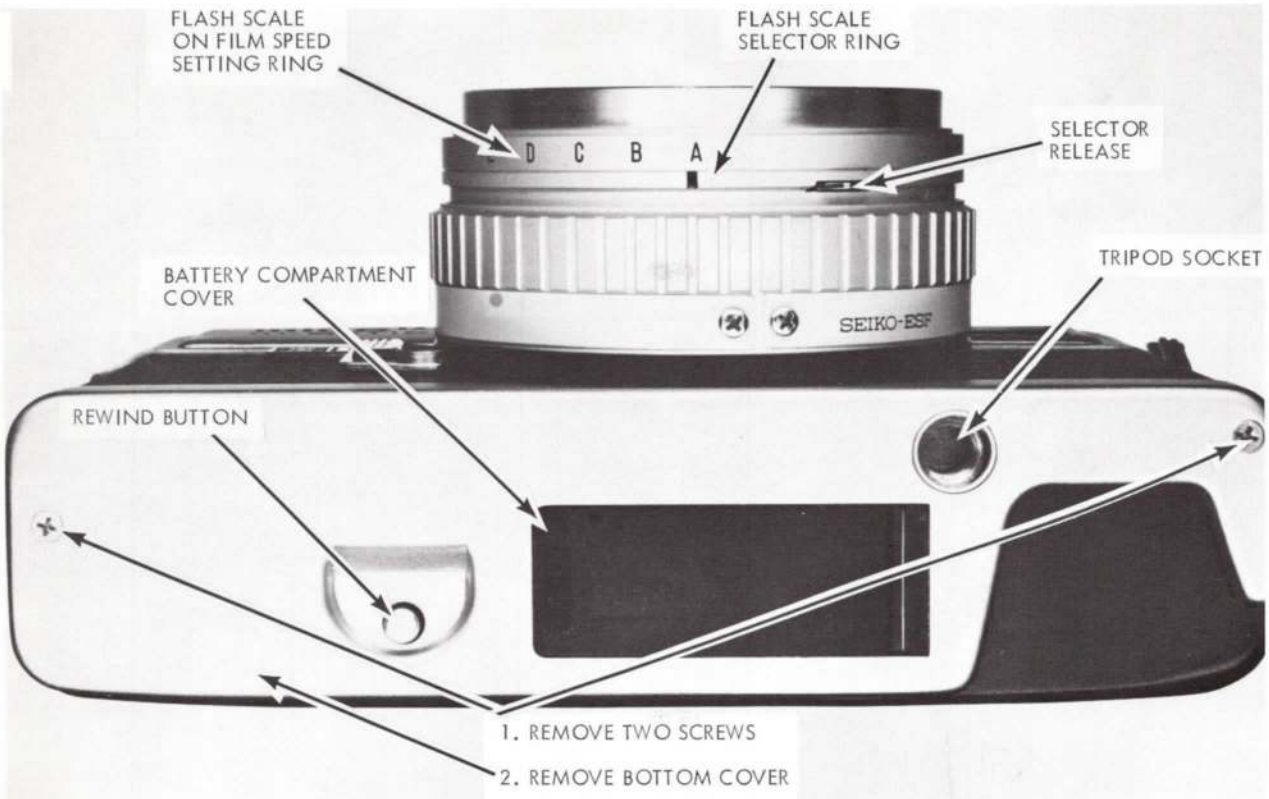
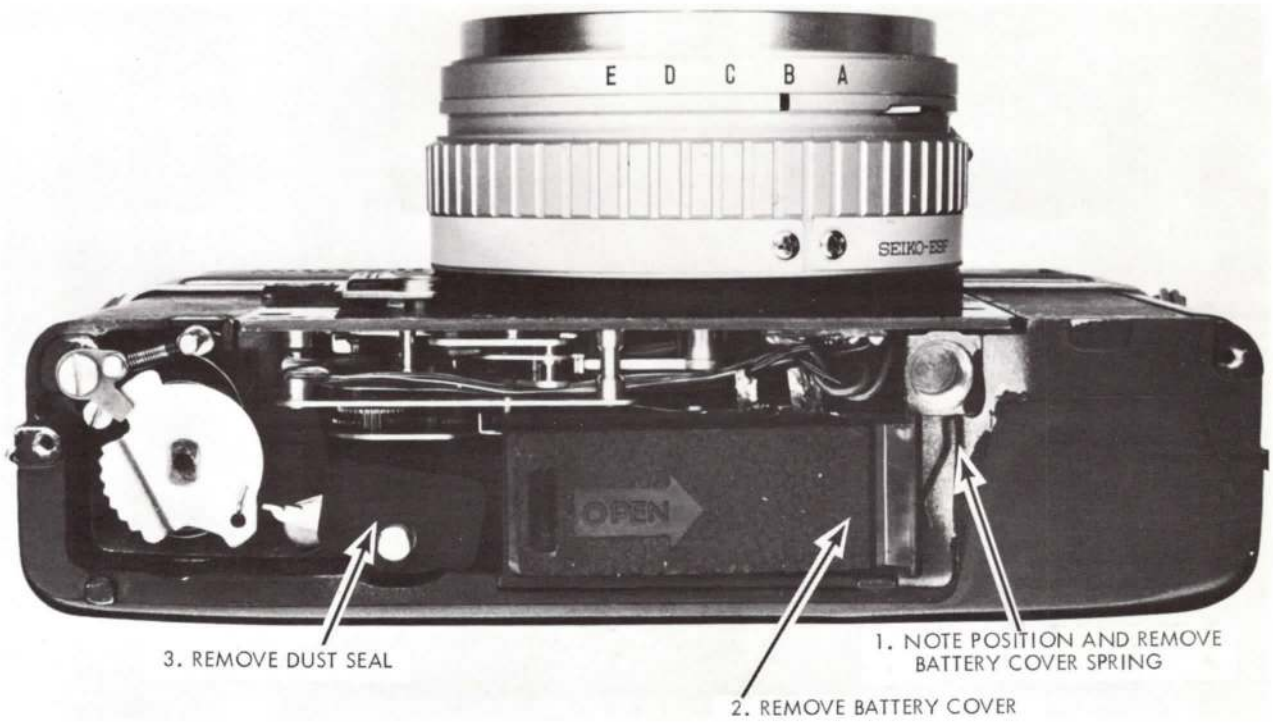
PULL UP REWIND KNOB TO OPEN CAMERA BACK


COUNTER RESET LEVER
JCII 14
PASSED
JMDC
AUTO
• MANUAL
FILM INDICATOR CONTROL LEVER

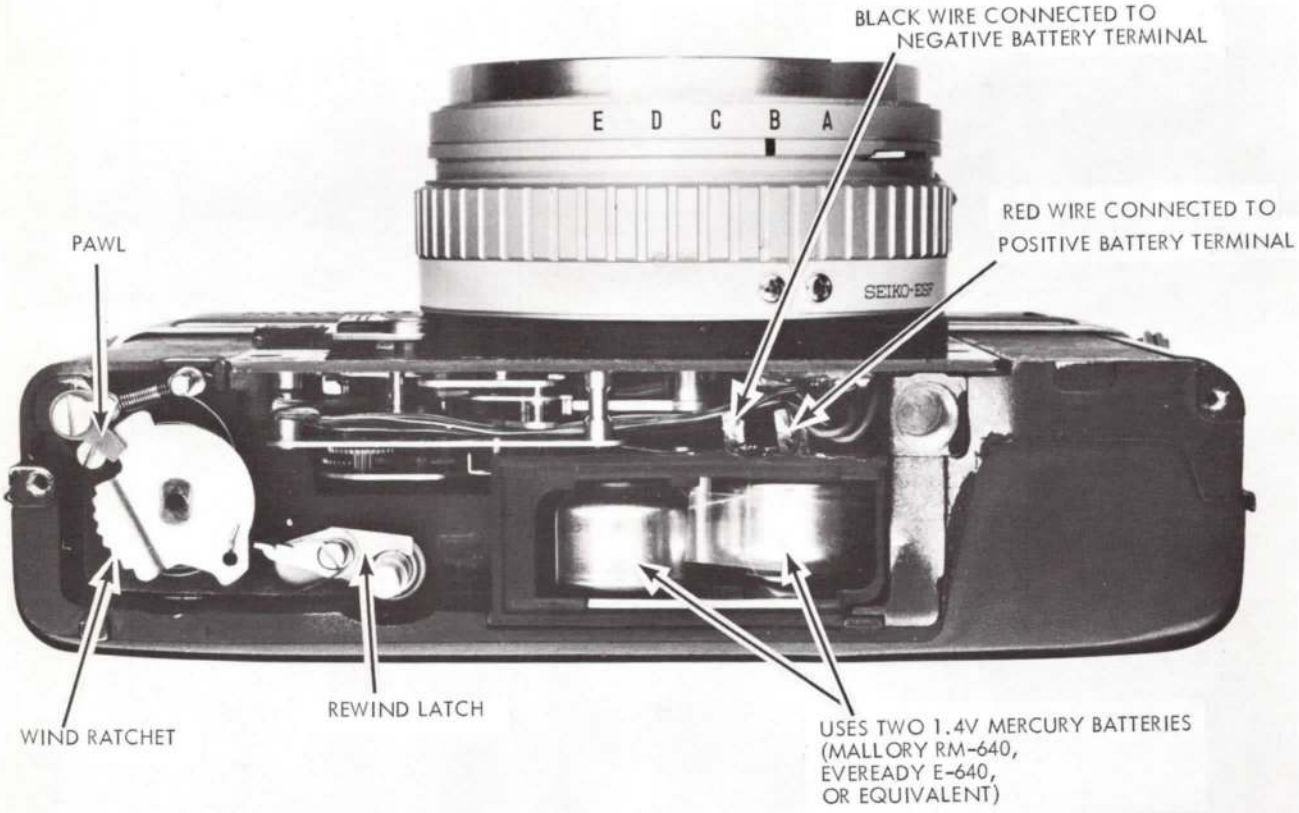
4


FLASH SCALE
ON FILM SPEED
SETTING RING
FLASH SCALE
SELECTOR RING
D C B A
SELECTOR
RELEASE
BATTERY COMPARTMENT
COVER
TRIPOD SOCKET
SEIKO-ESF
REWIND BUTTON
1. REMOVE TWO SCREWS
2. REMOVE BOTTOM COVER

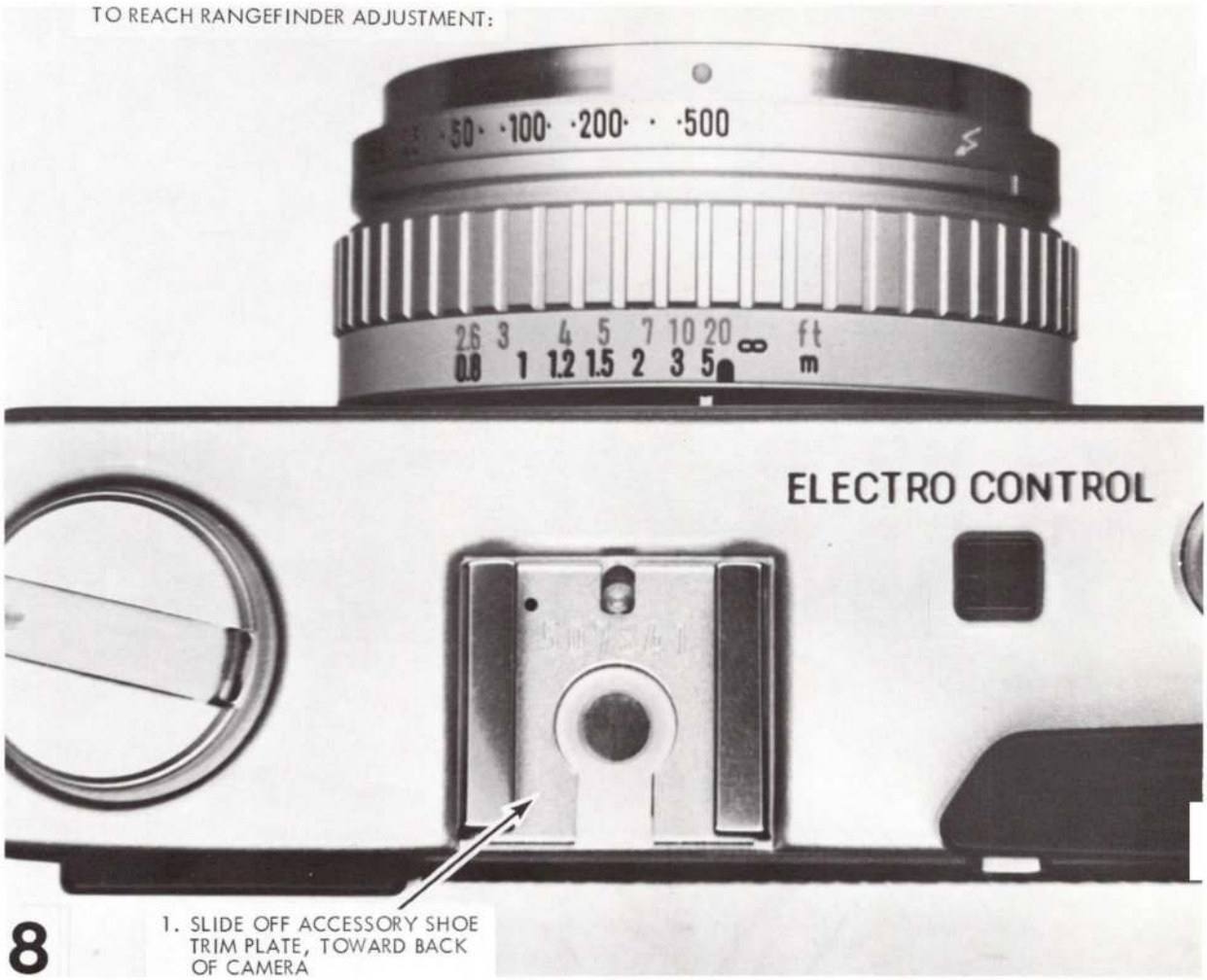
5


E D C B A
SEIKO-ESF
OPEN
3. REMOVE DUST SEAL
2. REMOVE BATTERY COVER
1. NOTE POSITION AND REMOVE
BATTERY COVER SPRING

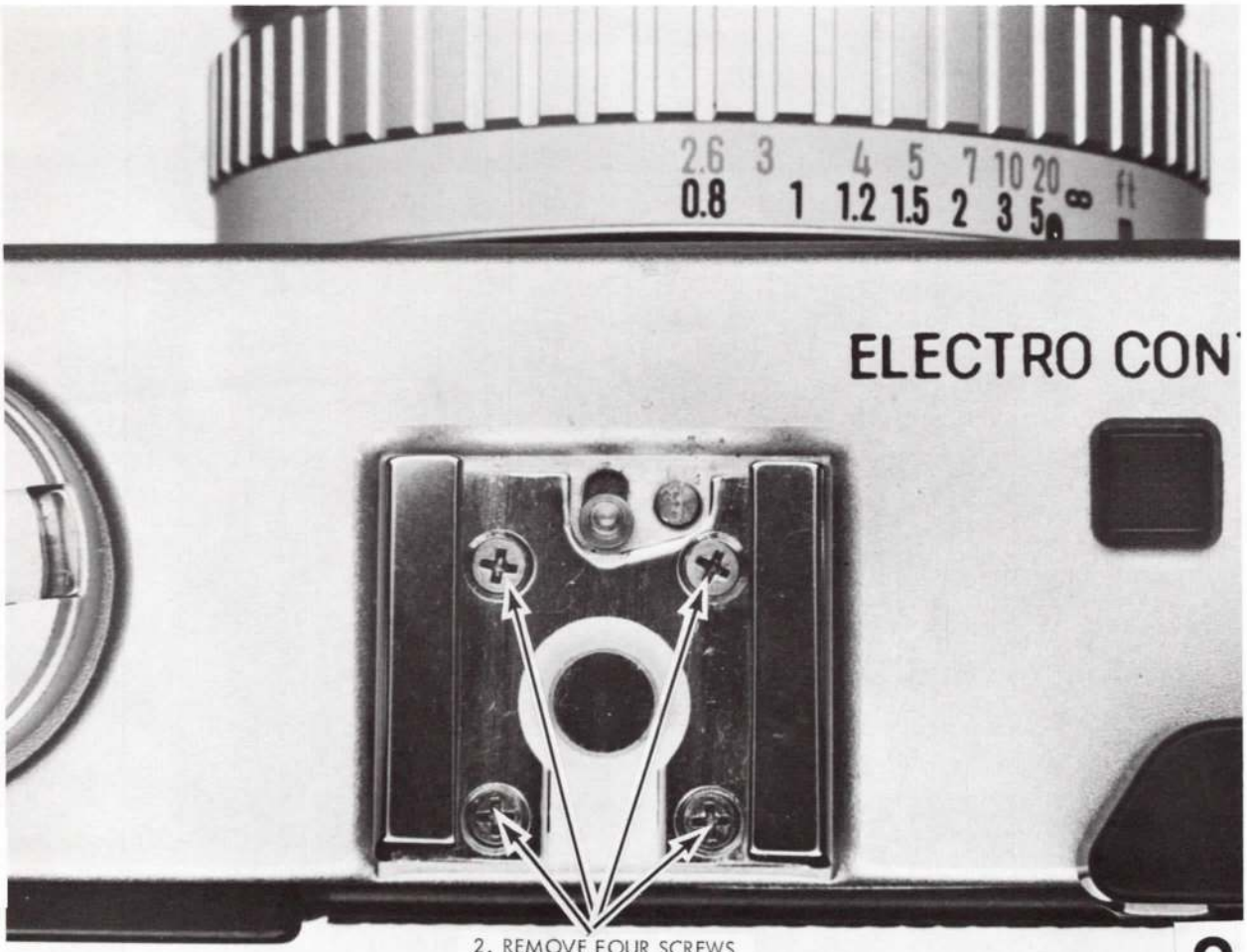
6


BLACK WIRE CONNECTED TO
NEGATIVE BATTERY TERMINAL
E D C B A
RED WIRE CONNECTED TO
POSITIVE BATTERY TERMINAL
PAWL
SEIKO-ESF
WIND RATCHET
REWIND LATCH
USES TWO 1.4V MERCURY BATTERIES
(MALLORY RM-640,
EVEREADY E-640,
OR EQUIVALENT)

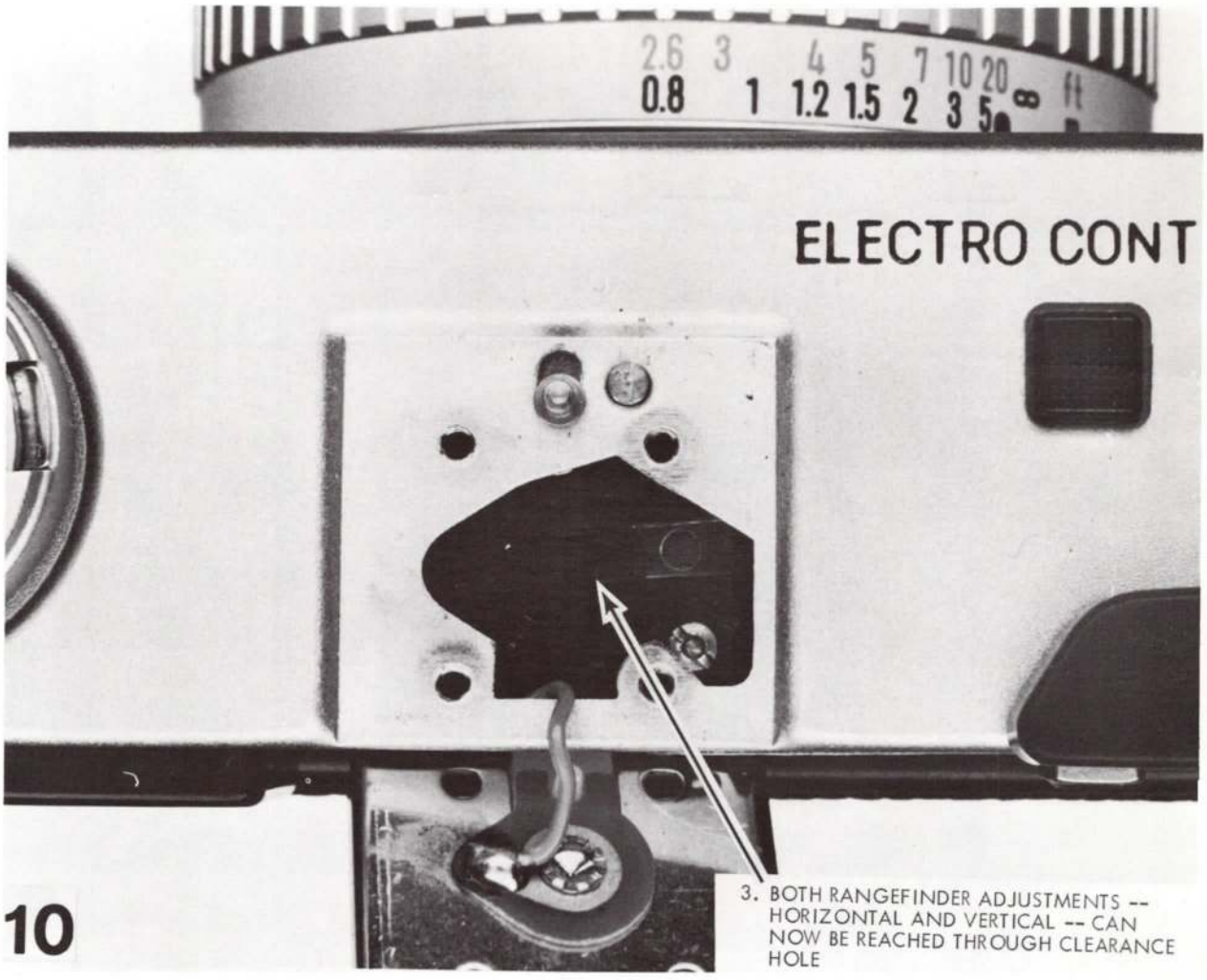
TO REACH RANGEFINDER ADJUSTMENT:



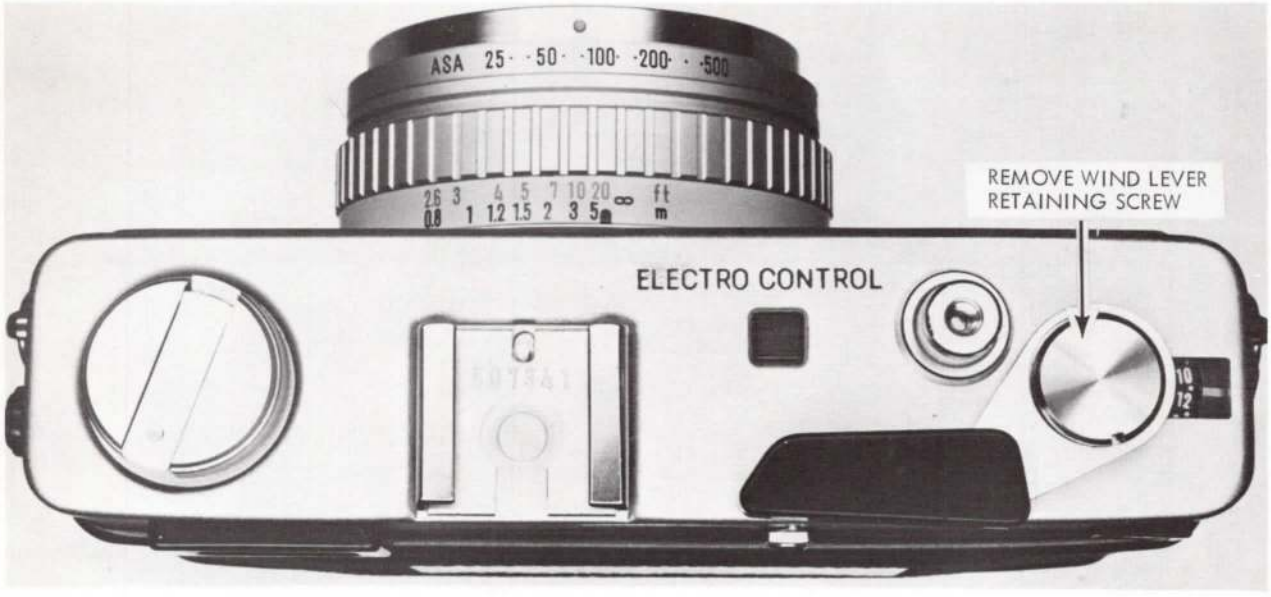
1. SLIDE OFF ACCESSORY SHOE TRIM PLATE, TOWARD BACK OF CAMERA

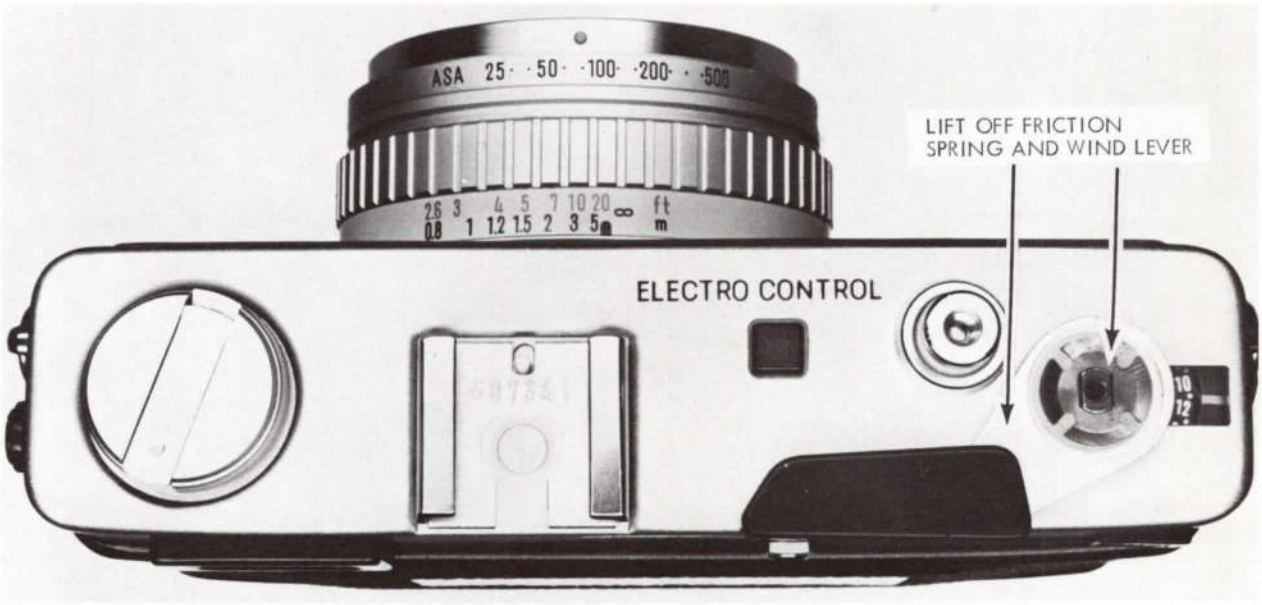


2. REMOVE FOUR SCREWS AND LIFT ASIDE ACCESSORY SHOE

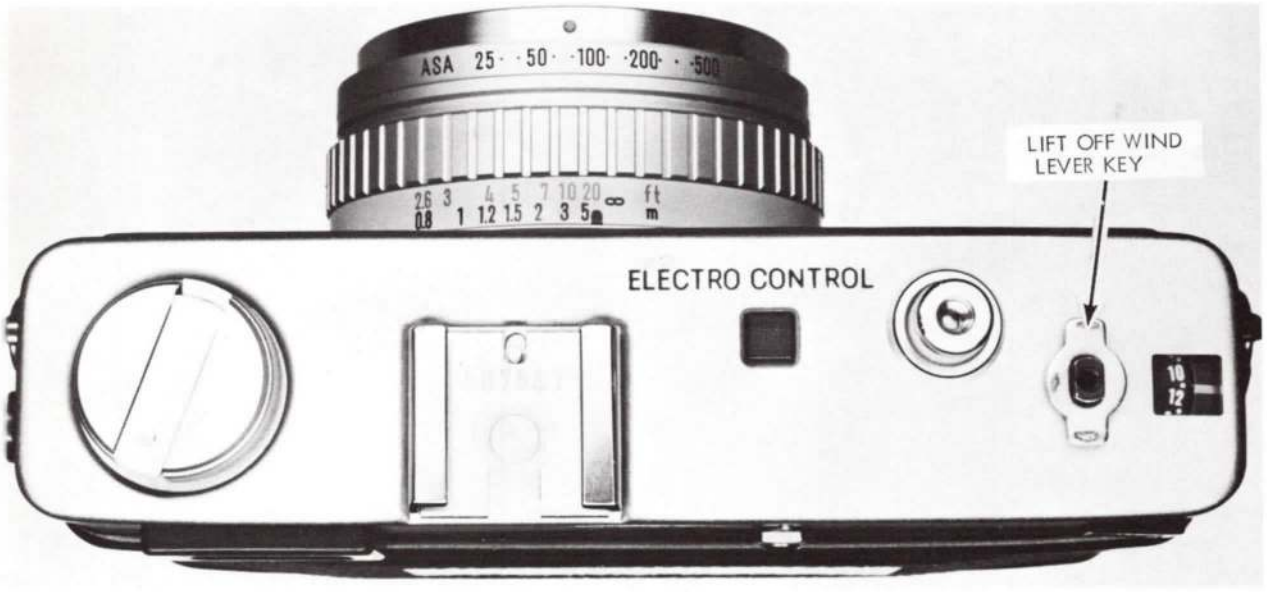


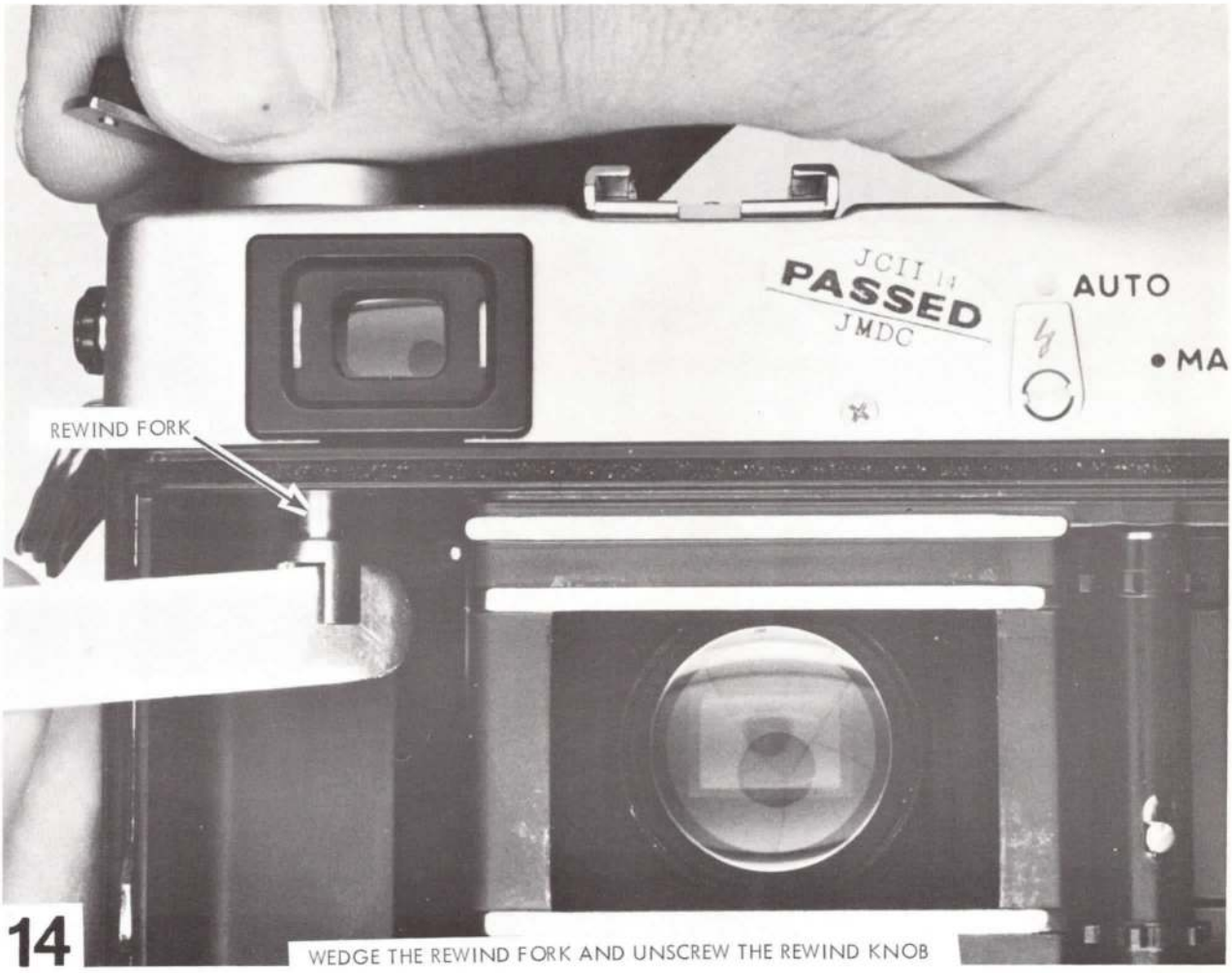
3. BOTH RANGEFINDER ADJUSTMENTS -- HORIZONTAL AND VERTICAL -- CAN NOW BE REACHED THROUGH CLEARANCE HOLE


ASA 25 50 100 200 500
2.6 3 4 5 7 10 20 ∞ ft
0.8 1 1.2 1.5 2 3 5 m
REMOVE WIND LEVER
RETAINING SCREW
ELECTRO CONTROL

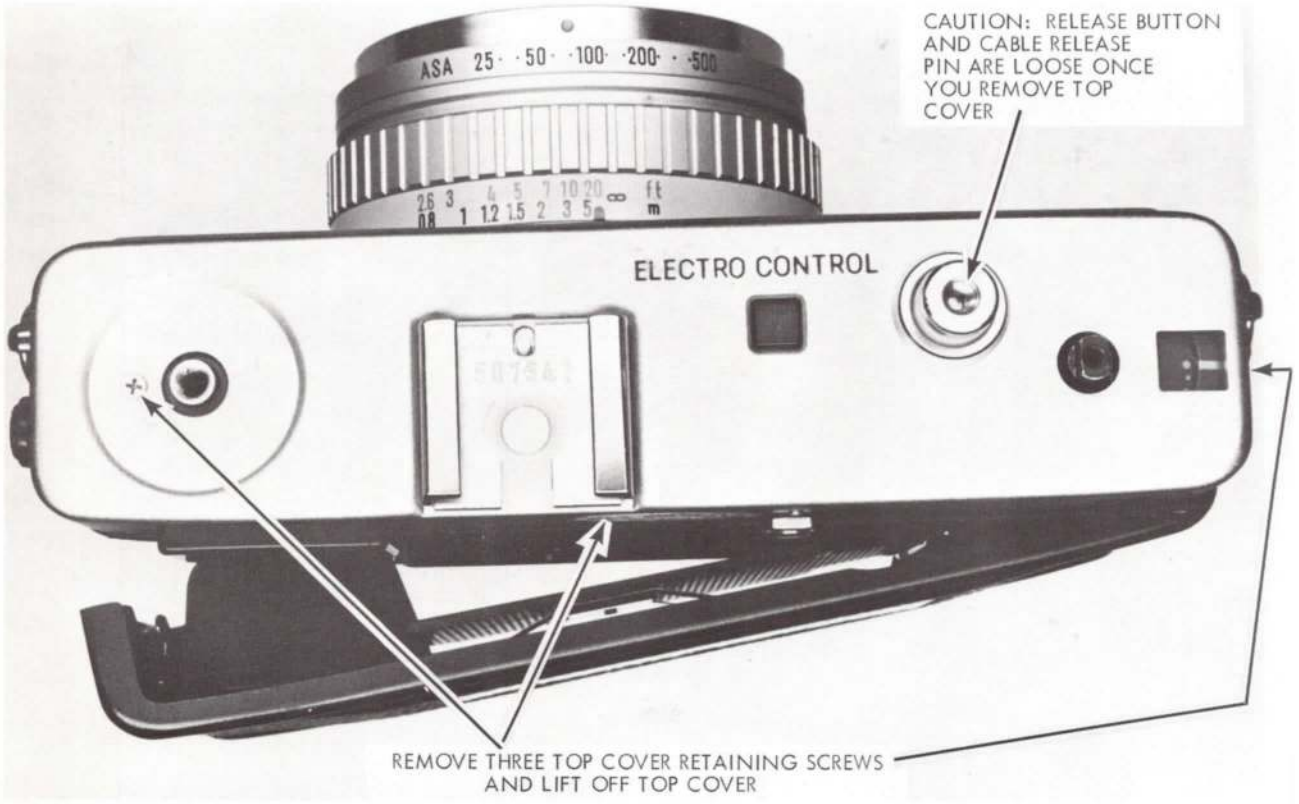

ASA 25 · 50 · 100 · 200 · 500
2.6 3 4 5 7 10 20 ∞ ft
0.8 1 1.2 1.5 2 3 5 m
LIFT OFF FRICTION
SPRING AND WIND LEVER
ELECTRO CONTROL

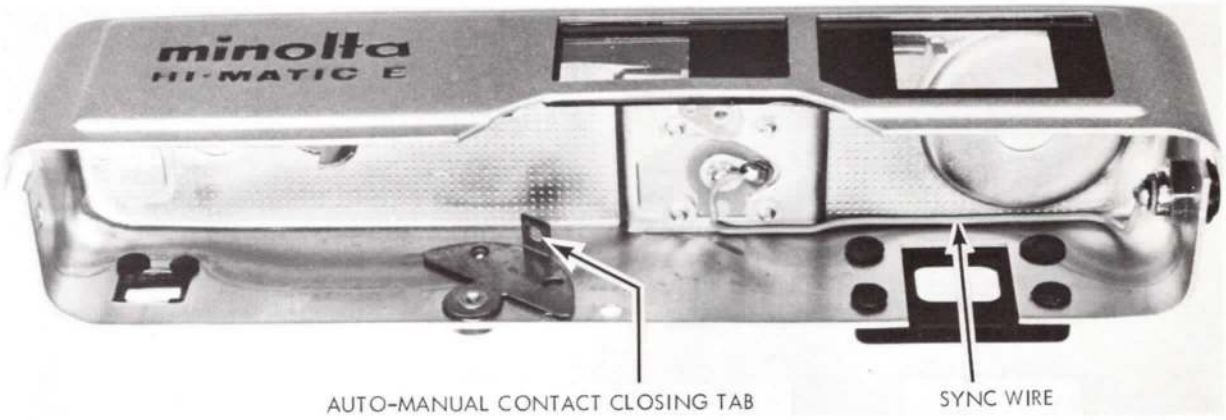
12

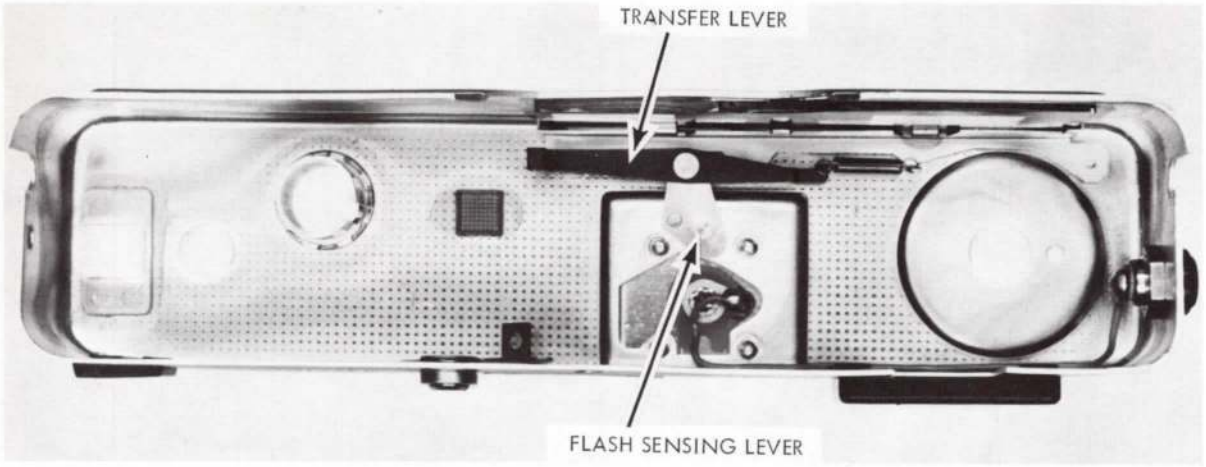

ASA 25 50 100 200 500
2.6 3 4 5 7 10 20 ∞ ft
0.8 1 1.2 1.5 2 3 5 m
LIFT OFF WIND
LEVER KEY
ELECTRO CONTROL

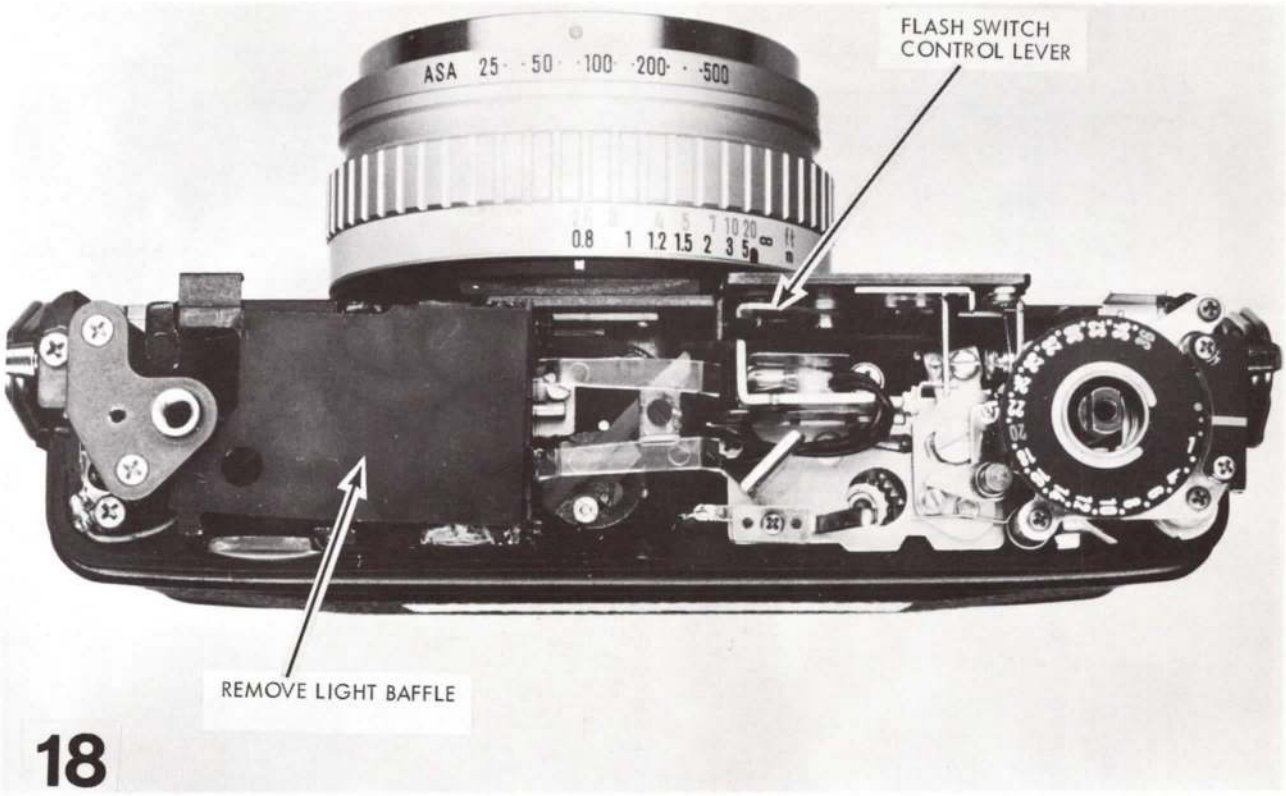


14 WEDGE THE REWIND FORK AND UNSCREW THE REWIND KNOB

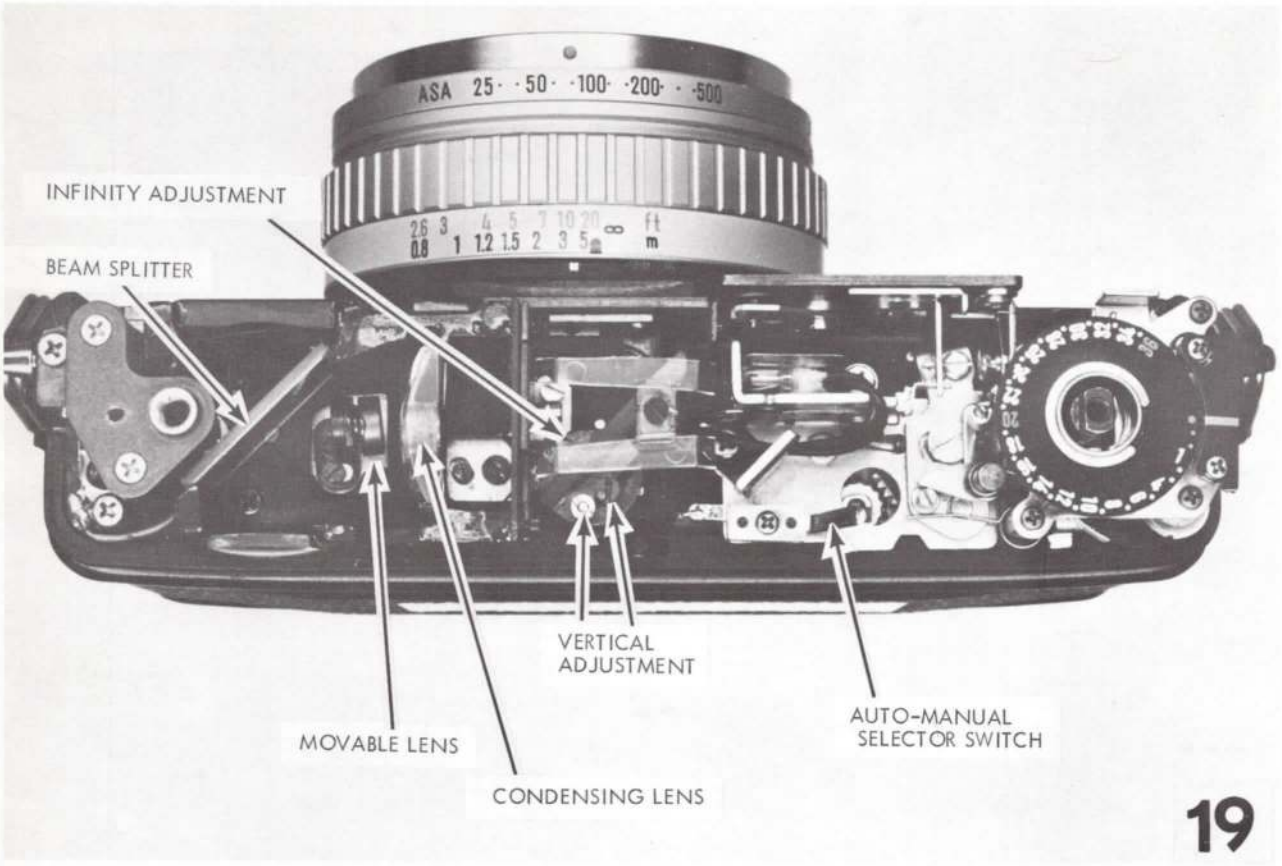

CAUTION: RELEASE BUTTON AND CABLE RELEASE PIN ARE LOOSE ONCE YOU REMOVE TOP COVER
ASA 25 50 100 200 500
ELECTRO CONTROL
REMOVE THREE TOP COVER RETAINING SCREWS AND LIFT OFF TOP COVER


minolta
HI-MATIC E
AUTO-MANUAL CONTACT CLOSING TAB
SYNC WIRE

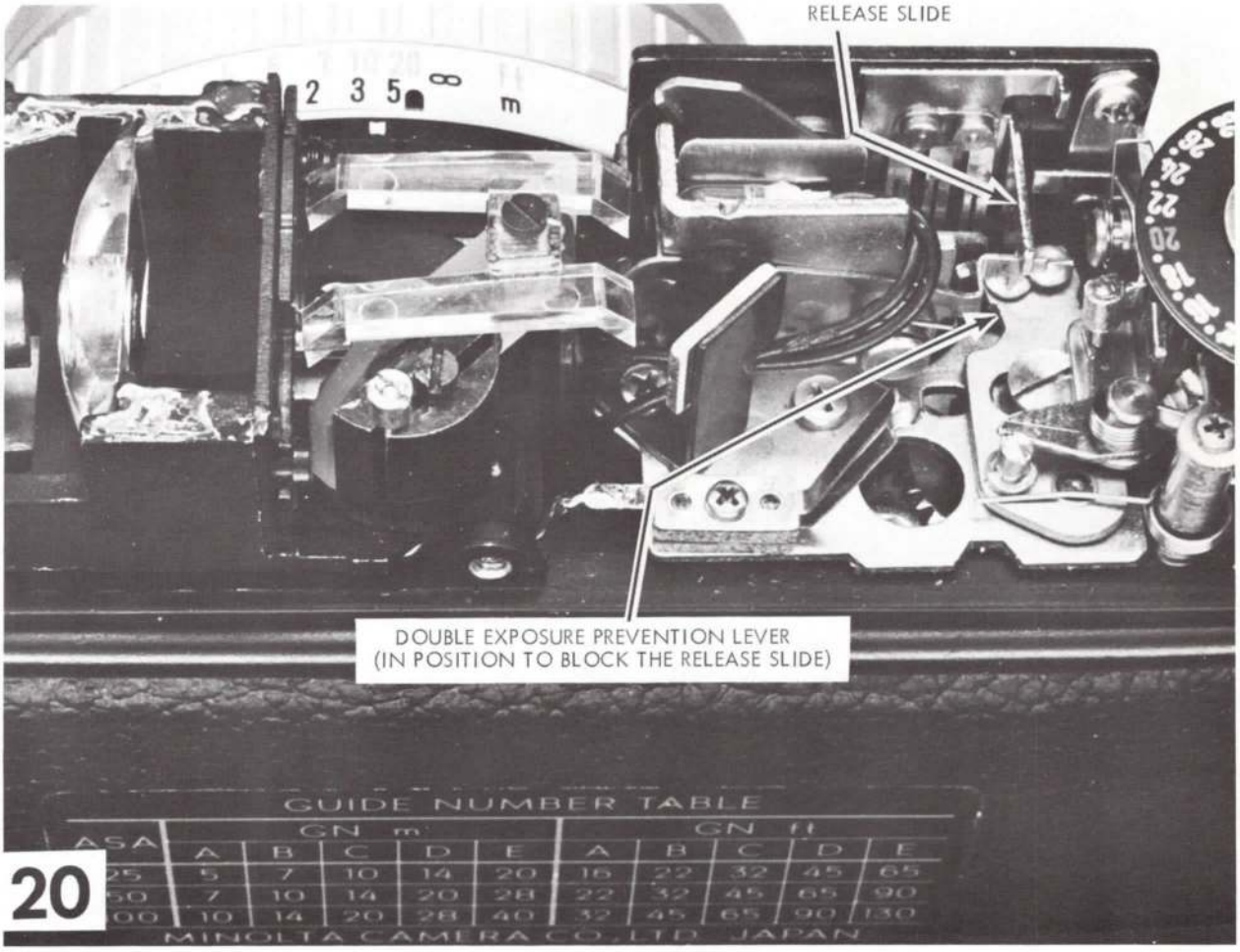

TRANSFER LEVER
FLASH SENSING LEVER

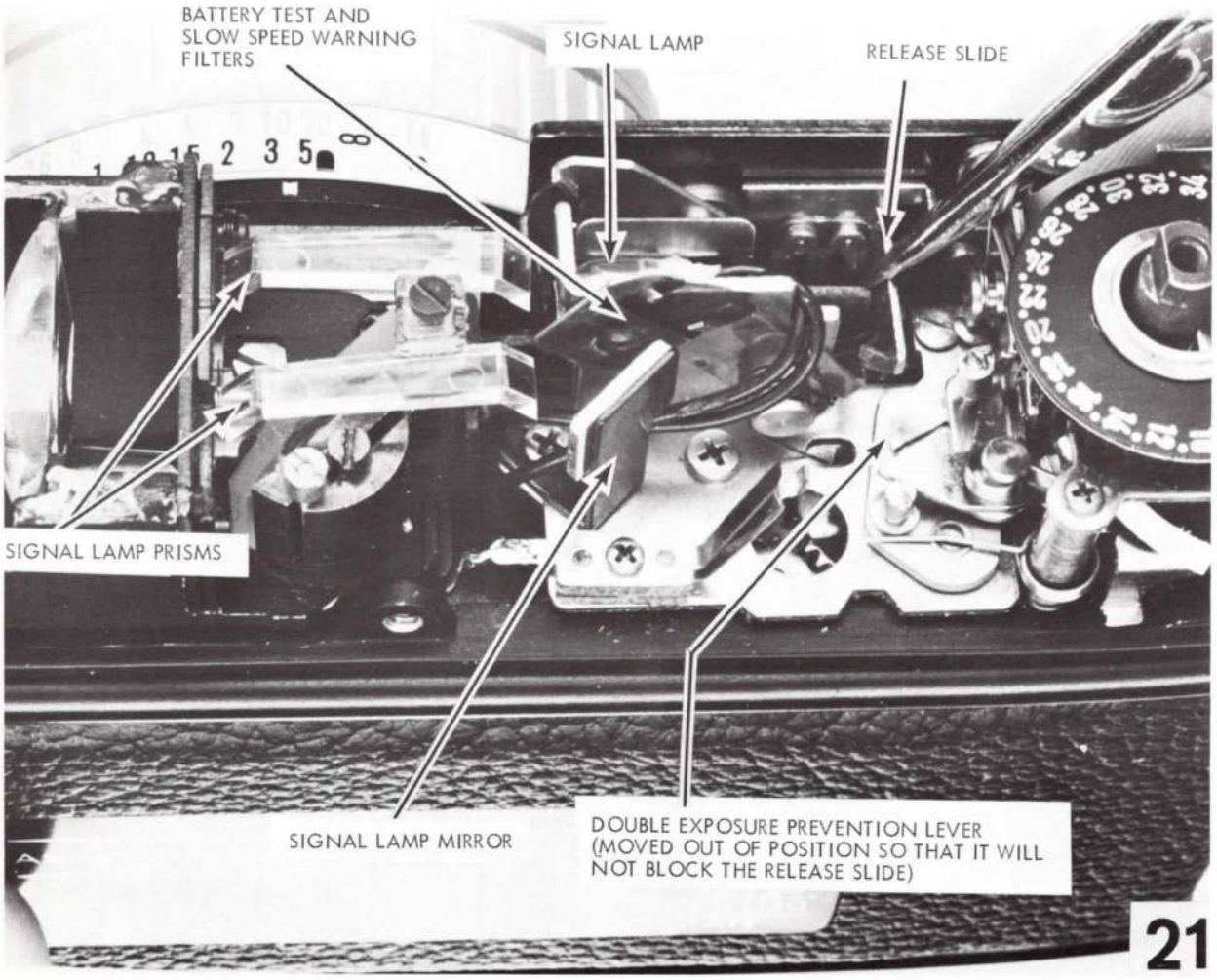

FLASH SWITCH
CONTROL LEVER
ASA 25 50 100 200 500
0.8 1 1.2 1.5 2 3 5 ∞ ft
m
REMOVE LIGHT BAFFLE

18

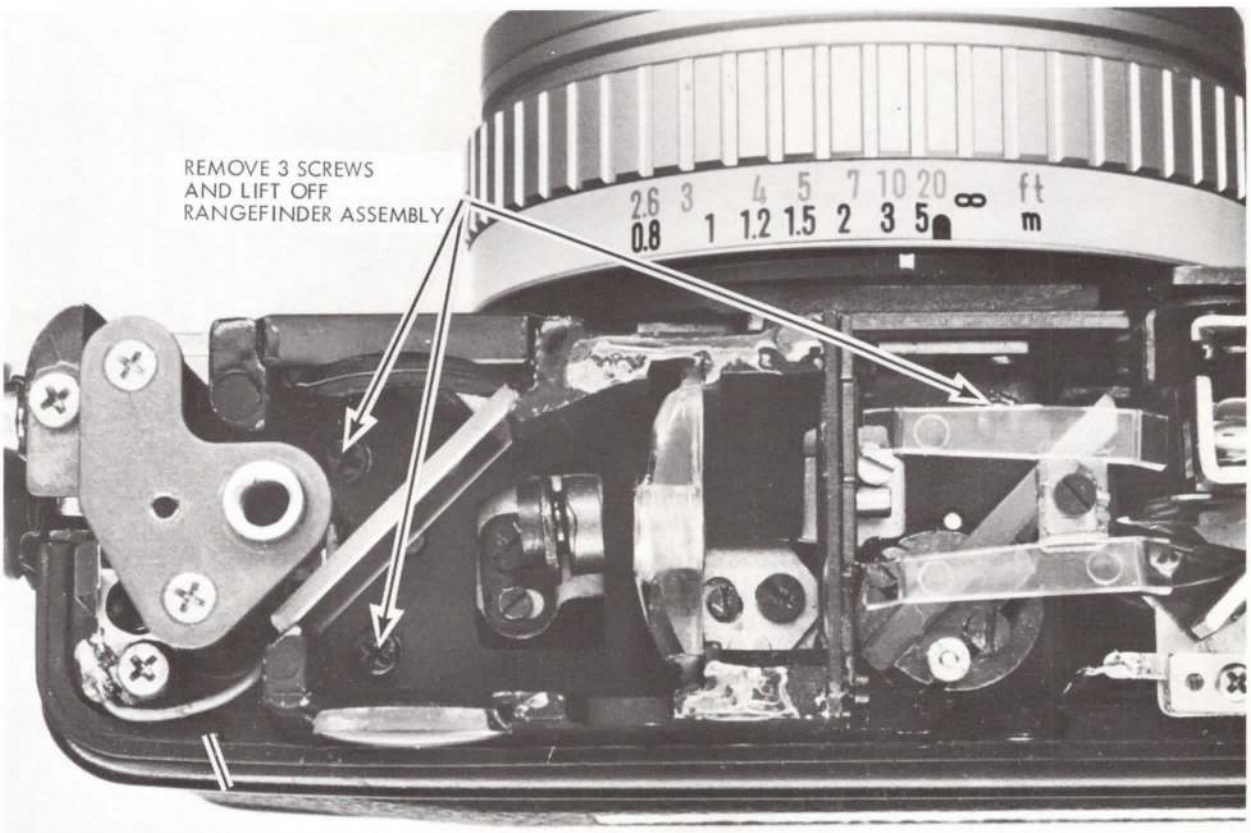

ASA 25 50 100 200 500
INFINITY ADJUSTMENT
BEAM SPLITTER
VERTICAL ADJUSTMENT
AUTO-MANUAL SELECTOR SWITCH
MOVABLE LENS
CONDENSING LENS

19

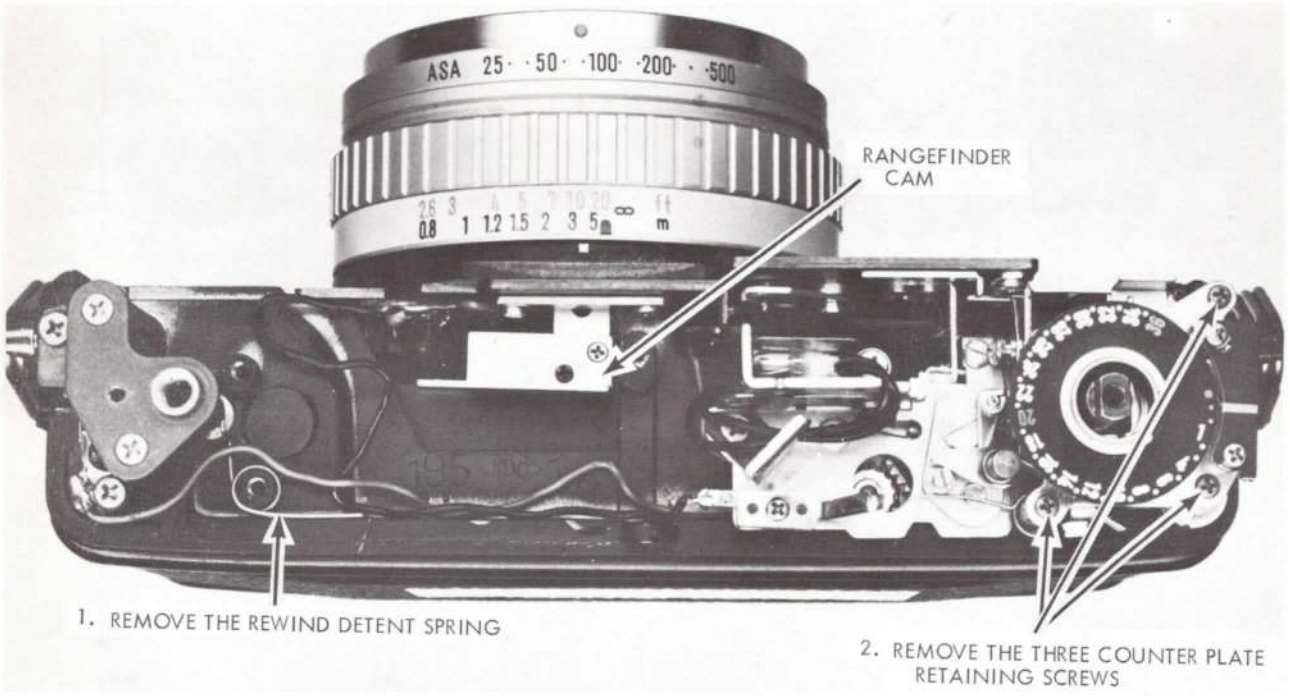

RELEASE SLIDE
2 3 5 ∞ m
DOUBLE EXPOSURE PREVENTION LEVER
(IN POSITION TO BLOCK THE RELEASE SLIDE)
GUIDE NUMBER TABLE
ASA
GN m
A B C D E
GN ft
A B C D E
25 5 7 10 14 20 16 22 32 45 65
50 7 10 14 20 28 22 32 45 65 90
100 10 14 20 28 40 32 45 65 90 130
MINOLTA CAMERA CO., LTD JAPAN

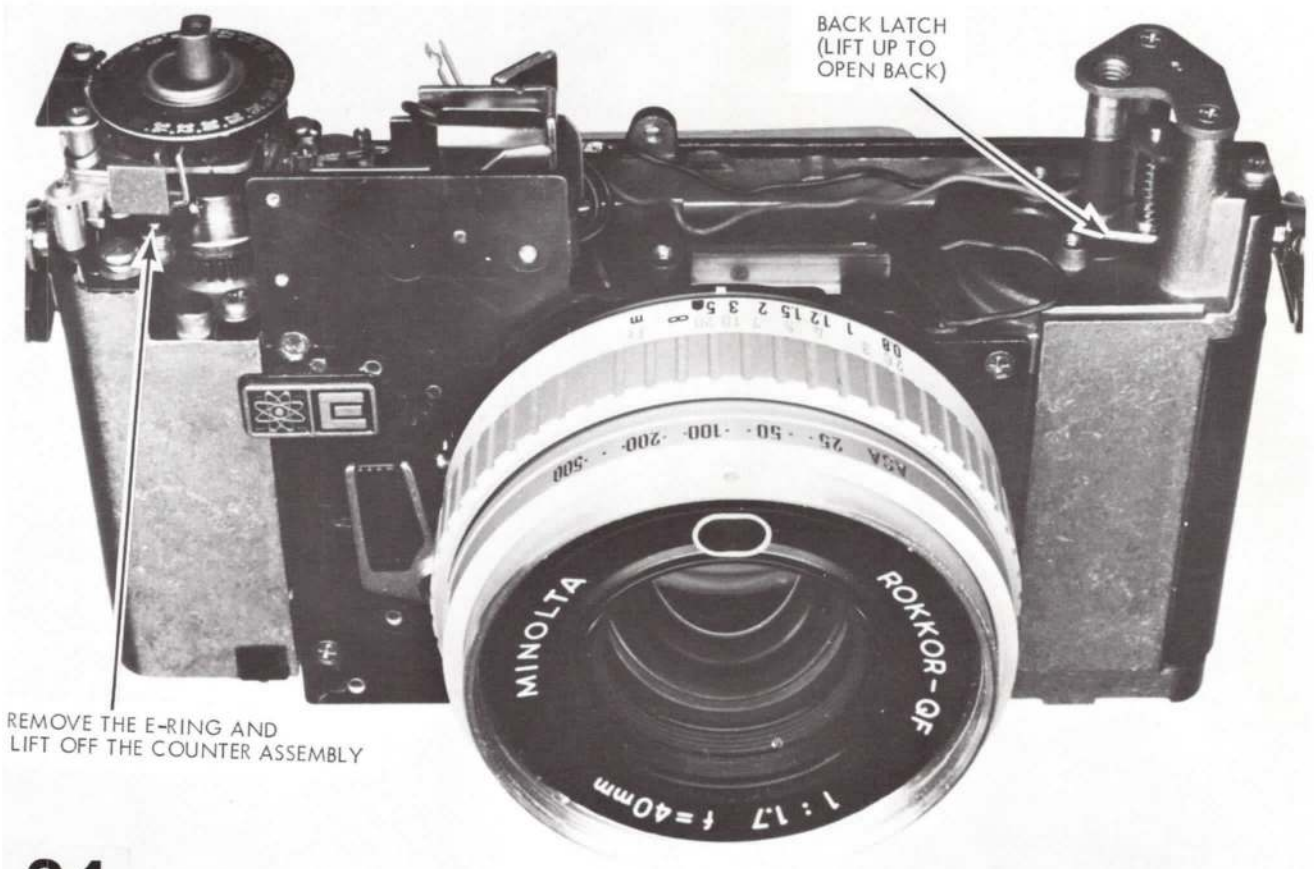

BATTERY TEST AND
SLOW SPEED WARNING
FILTERS
SIGNAL LAMP
RELEASE SLIDE
SIGNAL LAMP PRISMS
SIGNAL LAMP MIRROR
DOUBLE EXPOSURE PREVENTION LEVER
(MOVED OUT OF POSITION SO THAT IT WILL
NOT BLOCK THE RELEASE SLIDE)

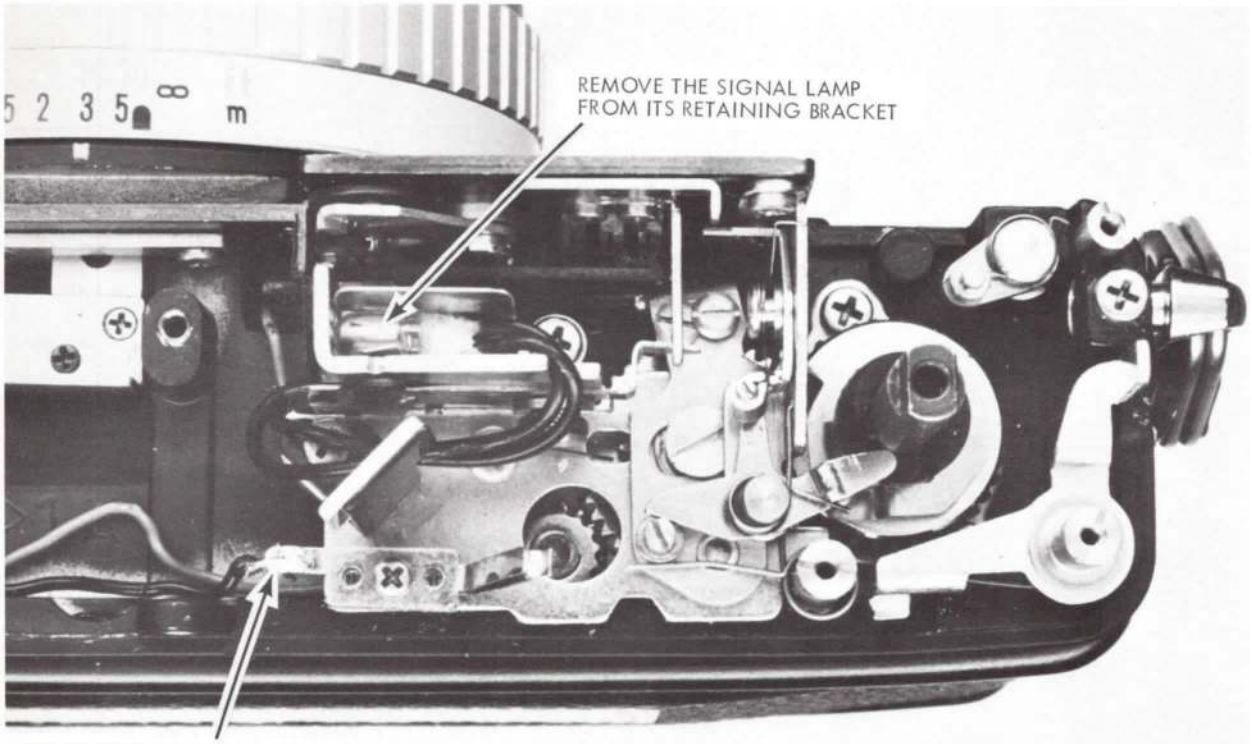
21

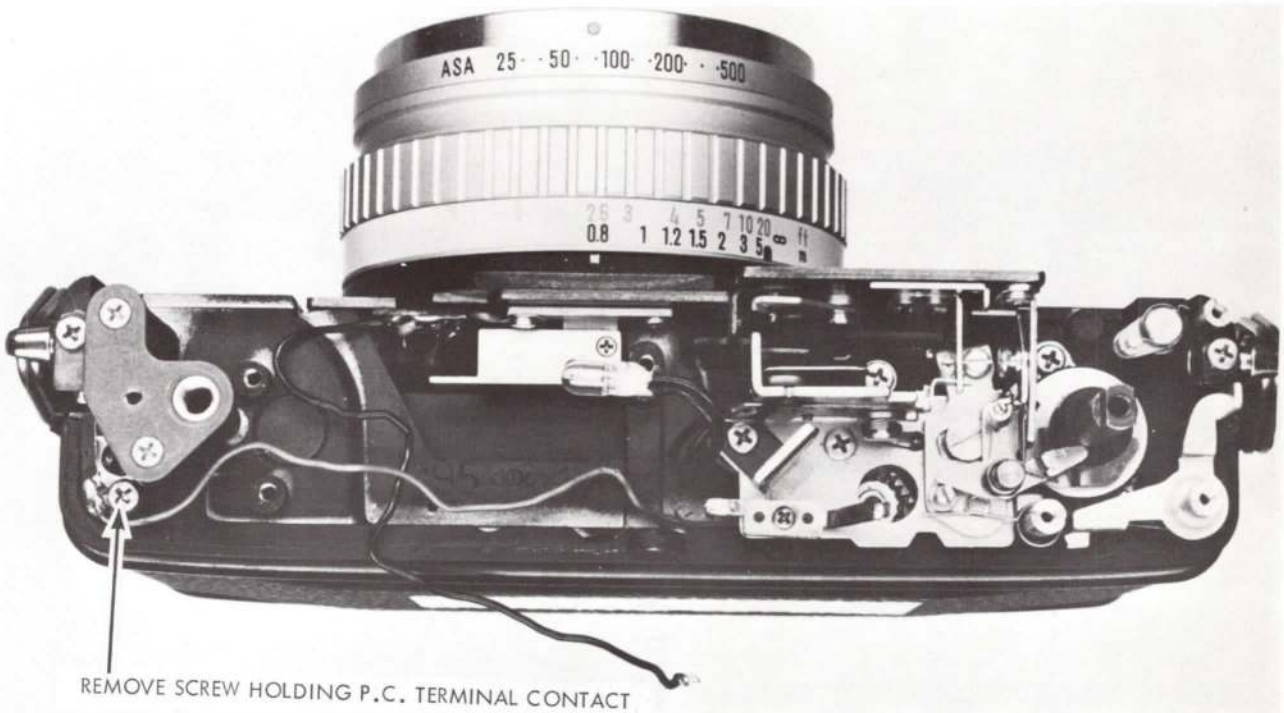

REMOVE 3 SCREWS
AND LIFT OFF
RANGEFINDER ASSEMBLY
2.6 3 4 5 7 10 20 ∞ ft
0.8 1 1.2 1.5 2 3 5 m

22


ASA 25 · 50 · 100 · 200 · 500
RANGEFINDER CAM
1. REMOVE THE REWIND DETENT SPRING
2. REMOVE THE THREE COUNTER PLATE RETAINING SCREWS

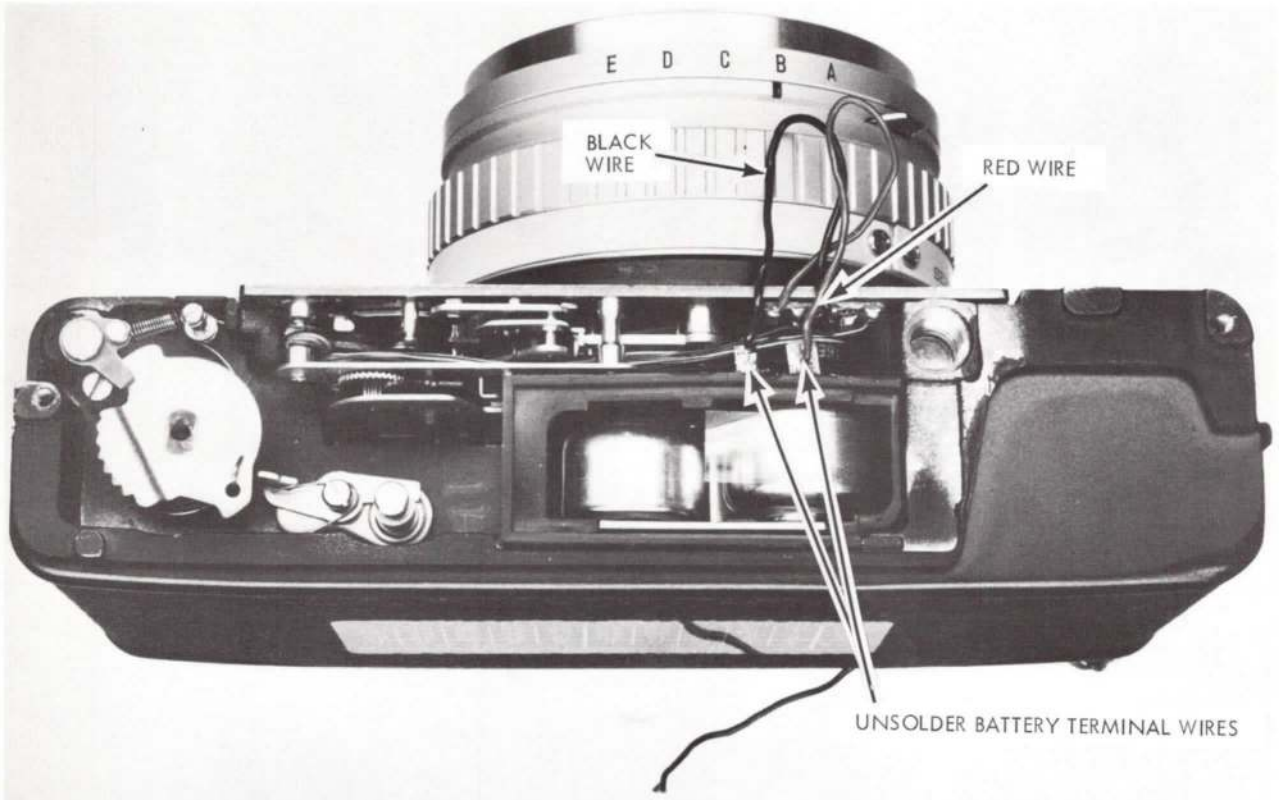

BACK LATCH
(LIFT UP TO
OPEN BACK)
REMOVE THE E-RING AND
LIFT OFF THE COUNTER ASSEMBLY
MINOLTA
ROKKOR-QF
1:1.7 f=40mm


5 2 3 5 ∞ m
REMOVE THE SIGNAL LAMP
FROM ITS RETAINING BRACKET
UNSOLDER THE BLACK WIRE FROM THE AUTO-MANUAL
SELECTOR SWITCH

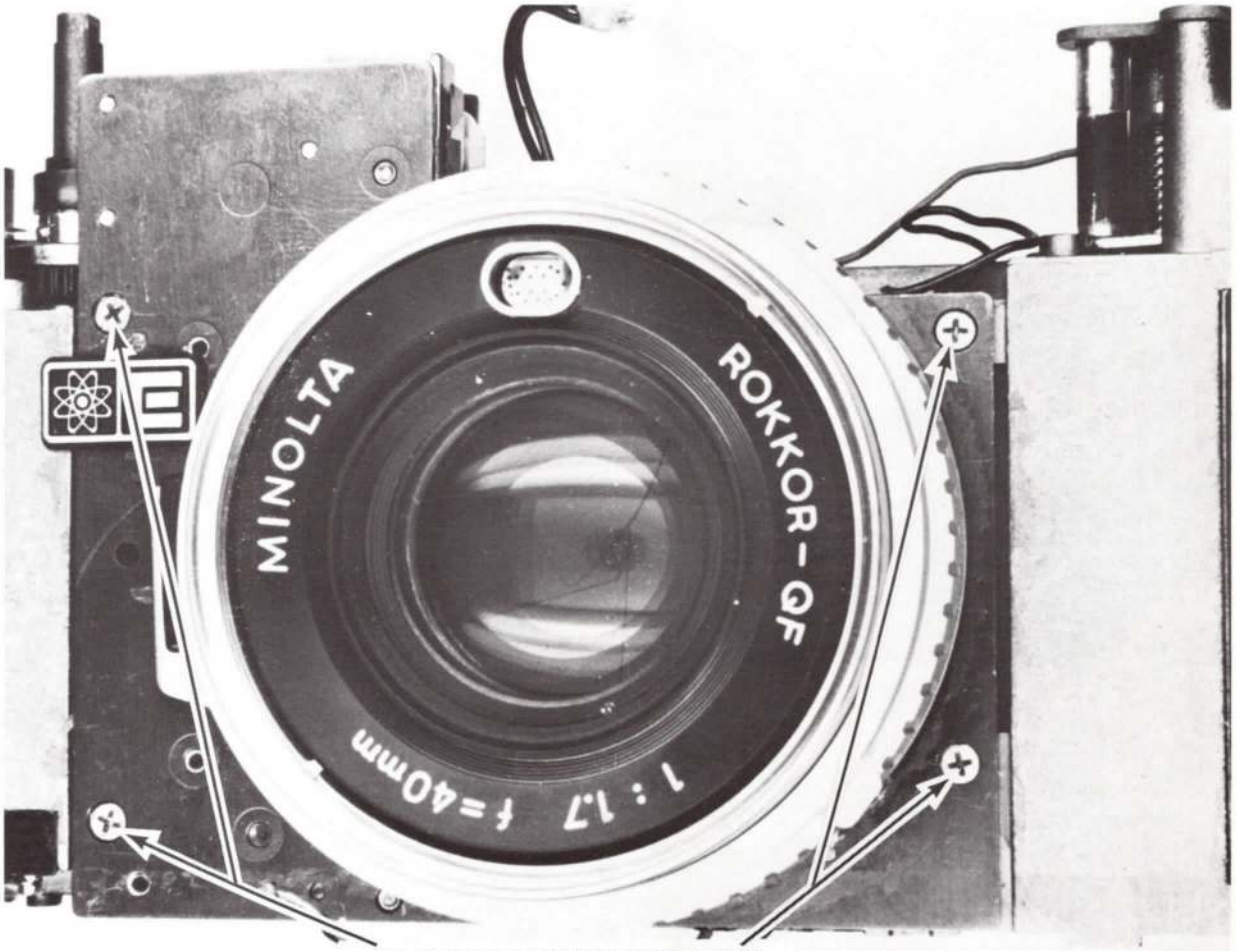


REMOVE SCREW HOLDING P.C. TERMINAL CONTACT

26

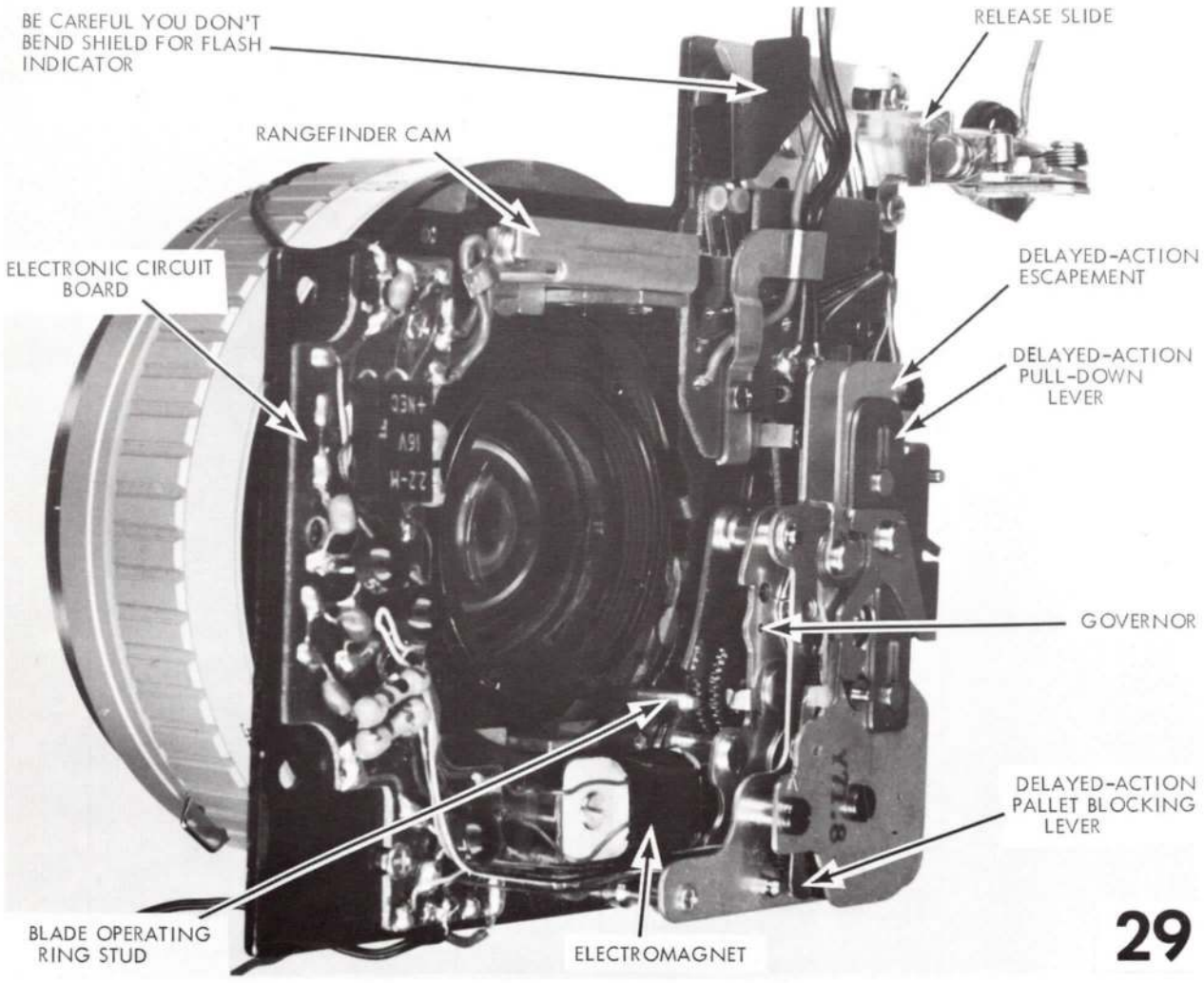


27

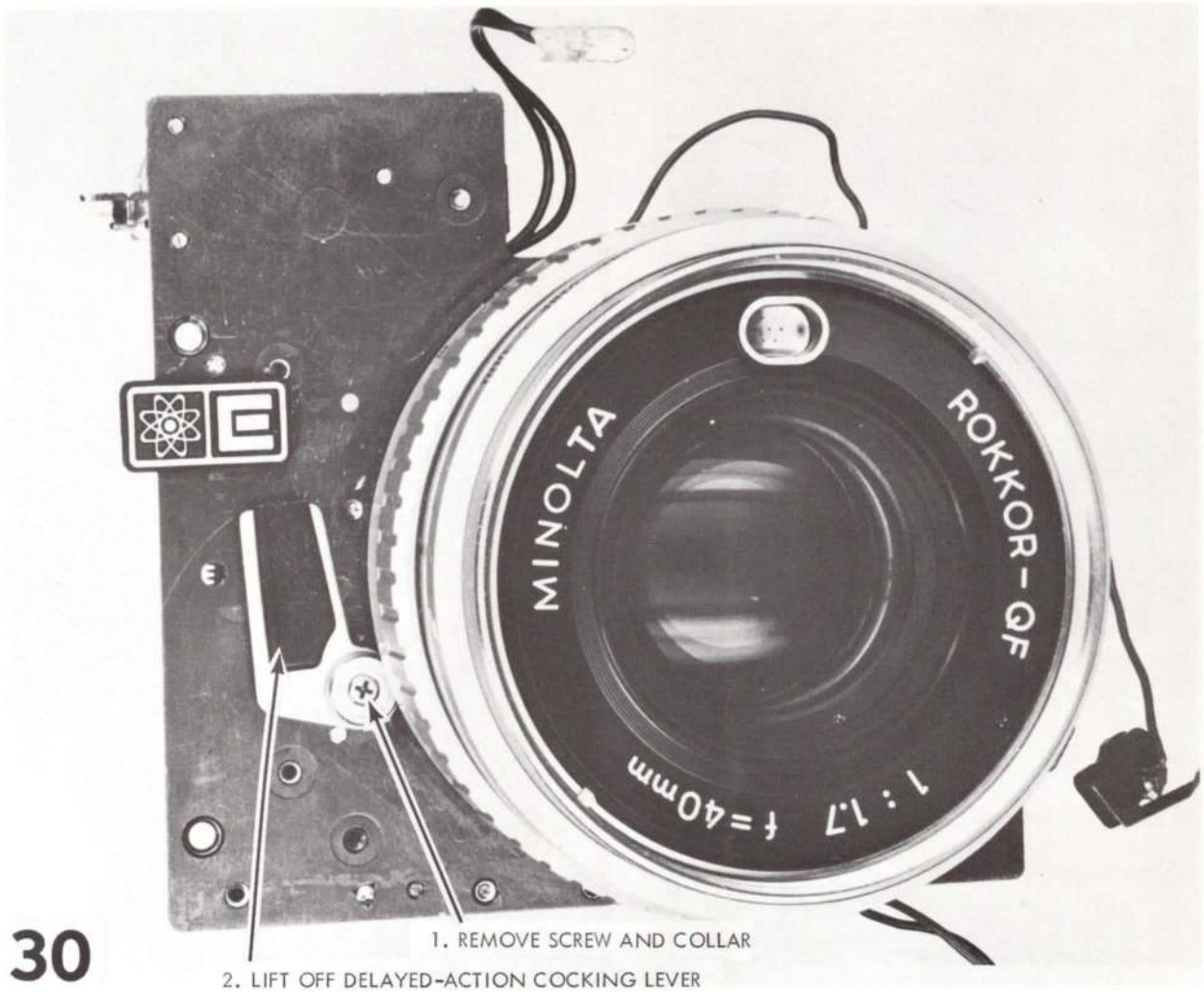


28

REMOVE THE FOUR FRONT STANDARD RETAINING SCREWS AND LIFT THE FRONT STANDARD AND SHUTTER ASSEMBLY FROM THE CAMERA BODY

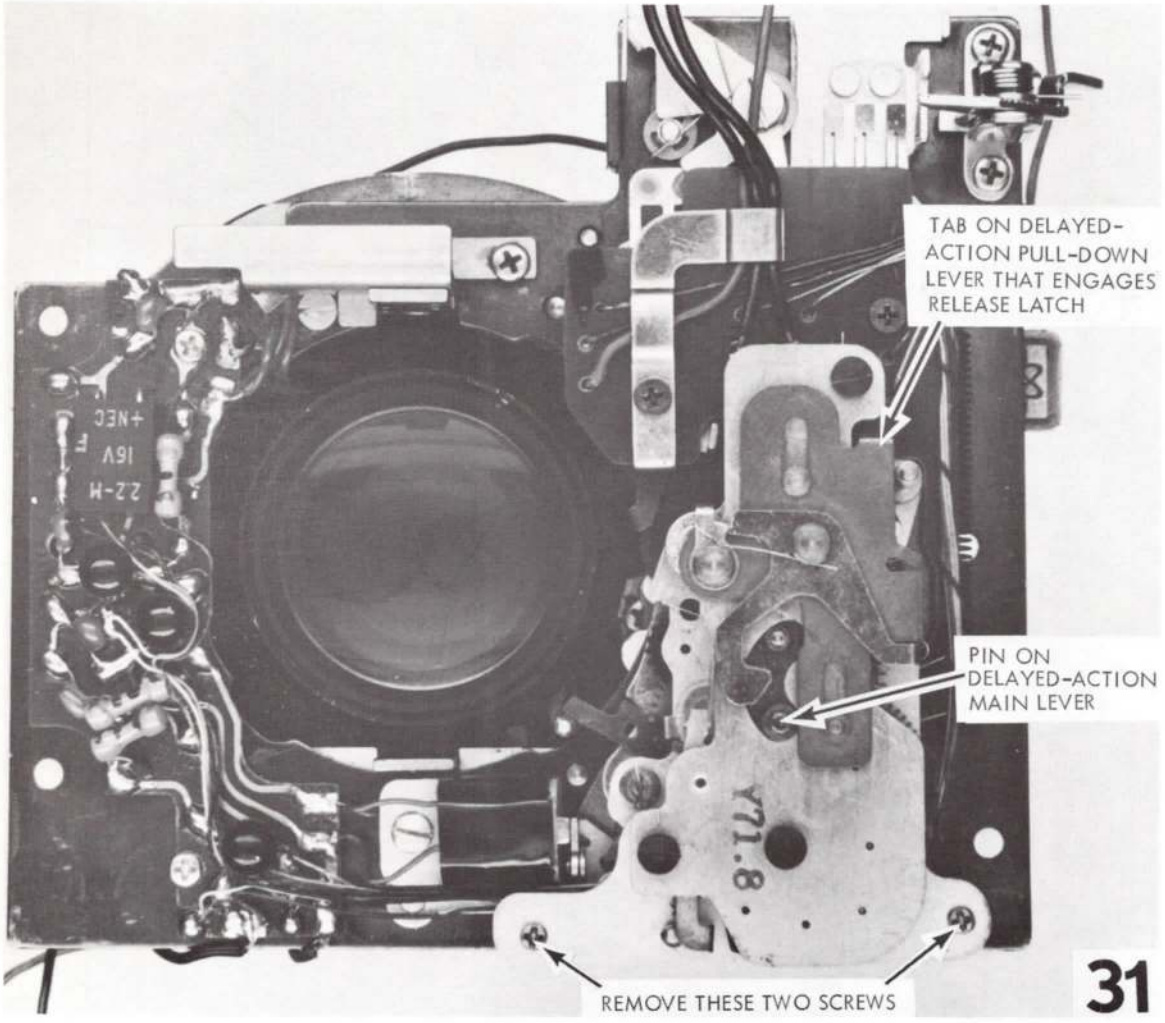

BE CAREFUL YOU DON'T BEND SHIELD FOR FLASH INDICATOR
RELEASE SLIDE
RANGEFINDER CAM
ELECTRONIC CIRCUIT BOARD
DELAYED-ACTION ESCAPEMENT
DELAYED-ACTION PULL-DOWN LEVER
GOVERNOR
DELAYED-ACTION PALLET BLOCKING LEVER
BLADE OPERATING RING STUD
ELECTROMAGNET

29

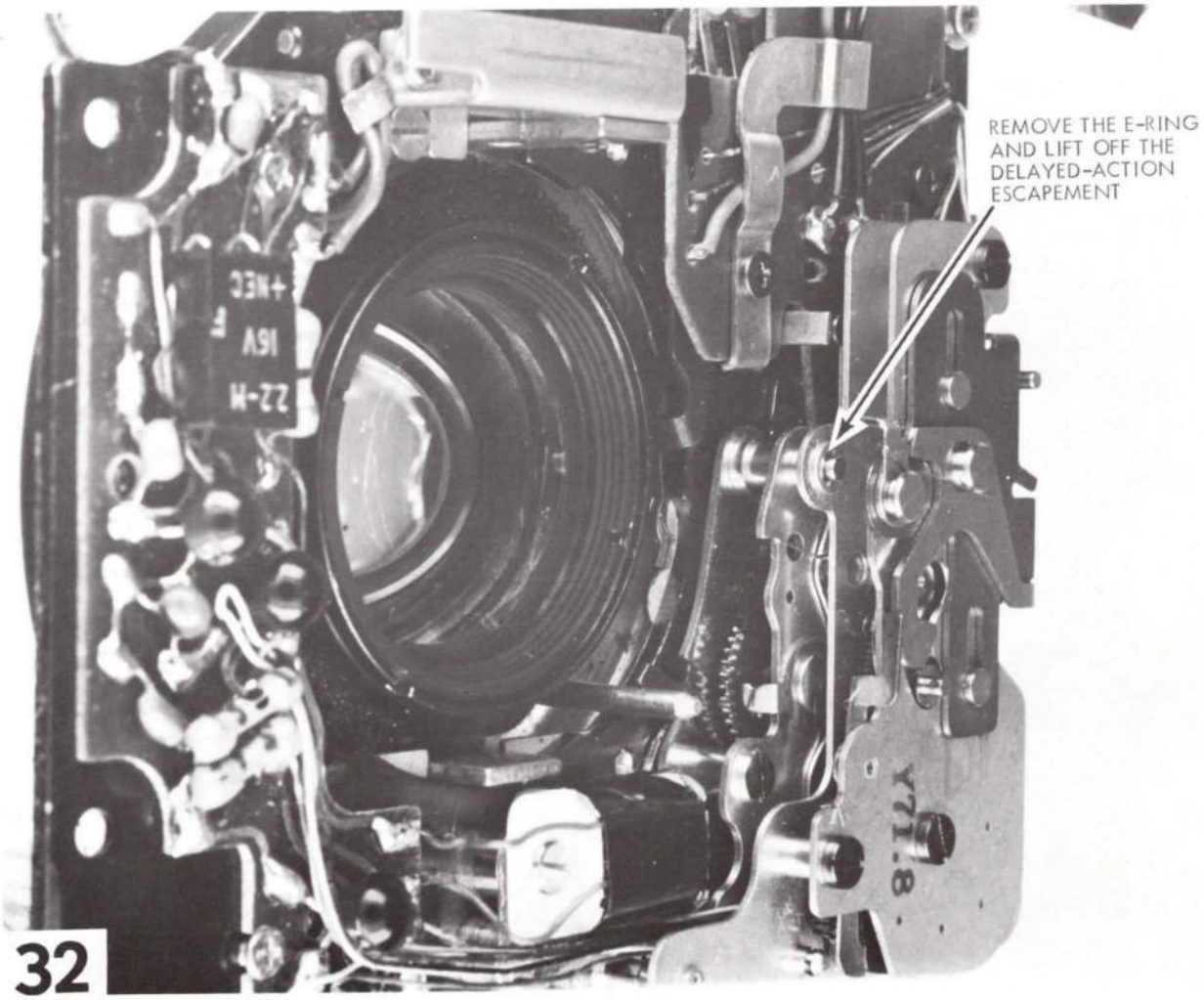


1. REMOVE SCREW AND COLLAR

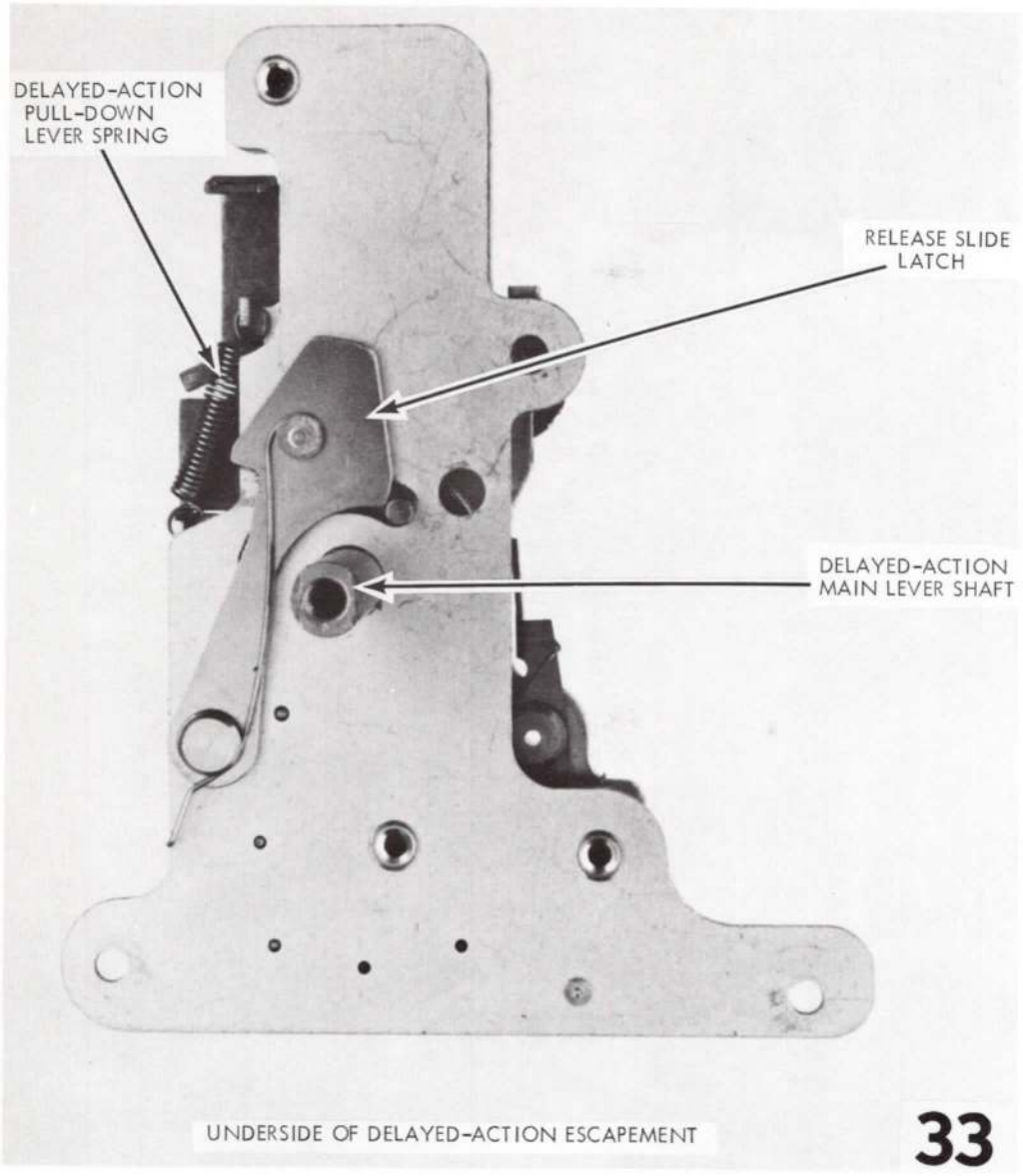
2. LIFT OFF DELAYED-ACTION COCKING LEVER


TAB ON DELAYED-ACTION PULL-DOWN LEVER THAT ENGAGES RELEASE LATCH
PIN ON DELAYED-ACTION MAIN LEVER
REMOVE THESE TWO SCREWS

31


REMOVE THE E-RING AND LIFT OFF THE DELAYED-ACTION ESCAPEMENT

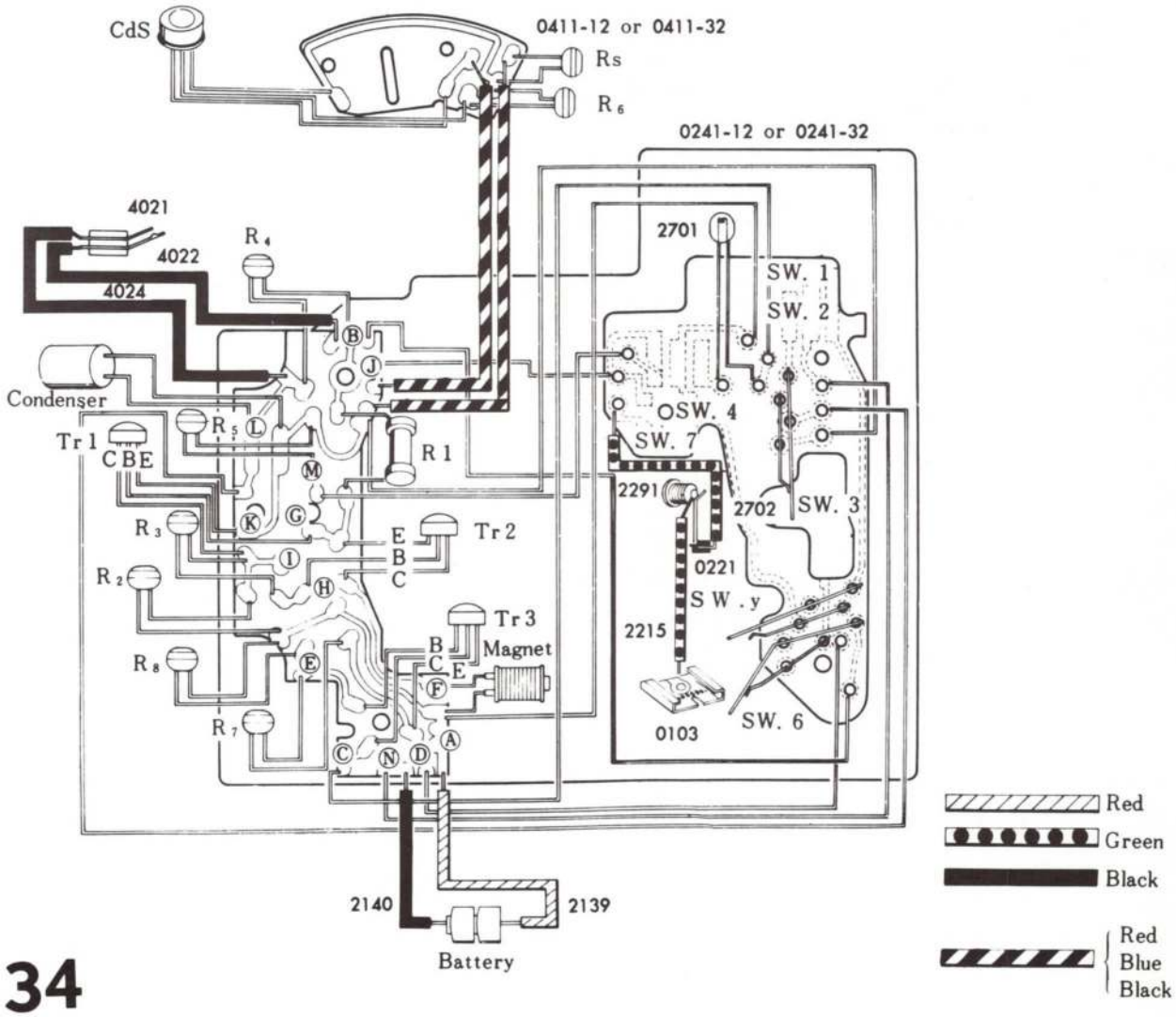
32



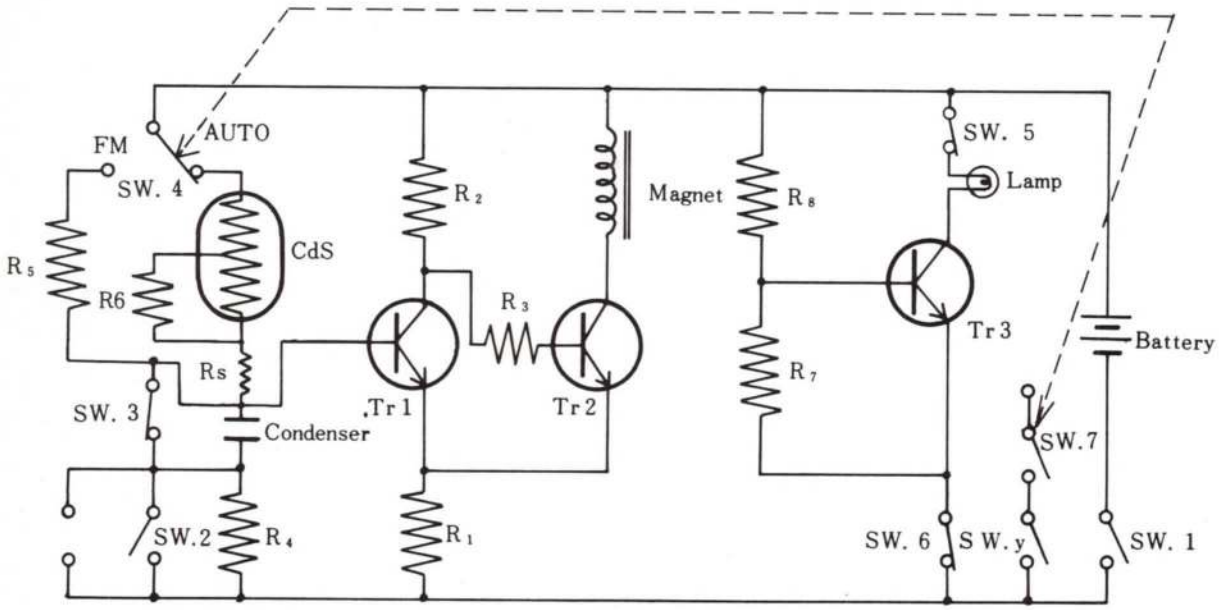
UNDERSIDE OF DELAYED-ACTION ESCAPEMENT

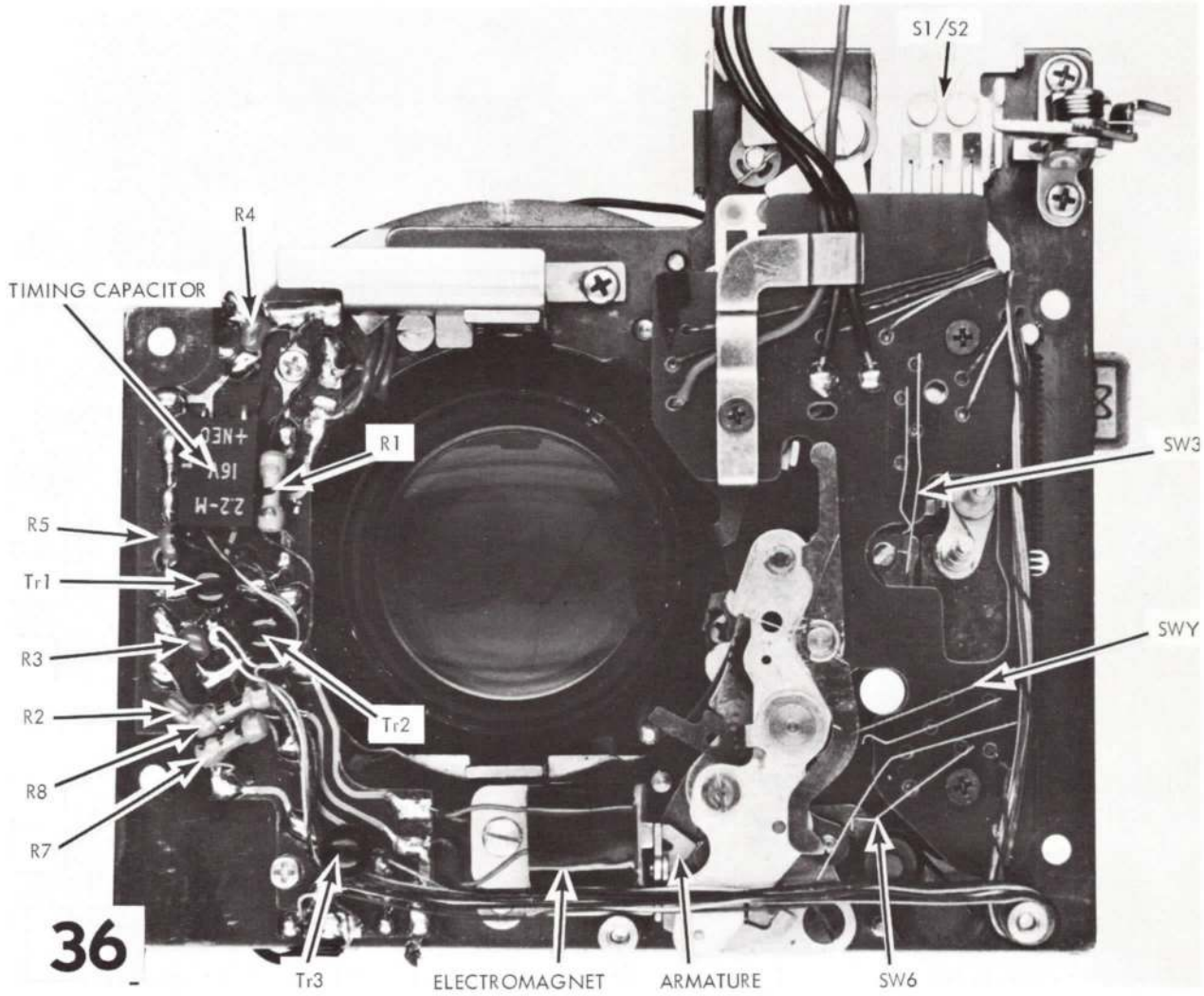
33

WIRING SCHEMATIC DIAGRAM

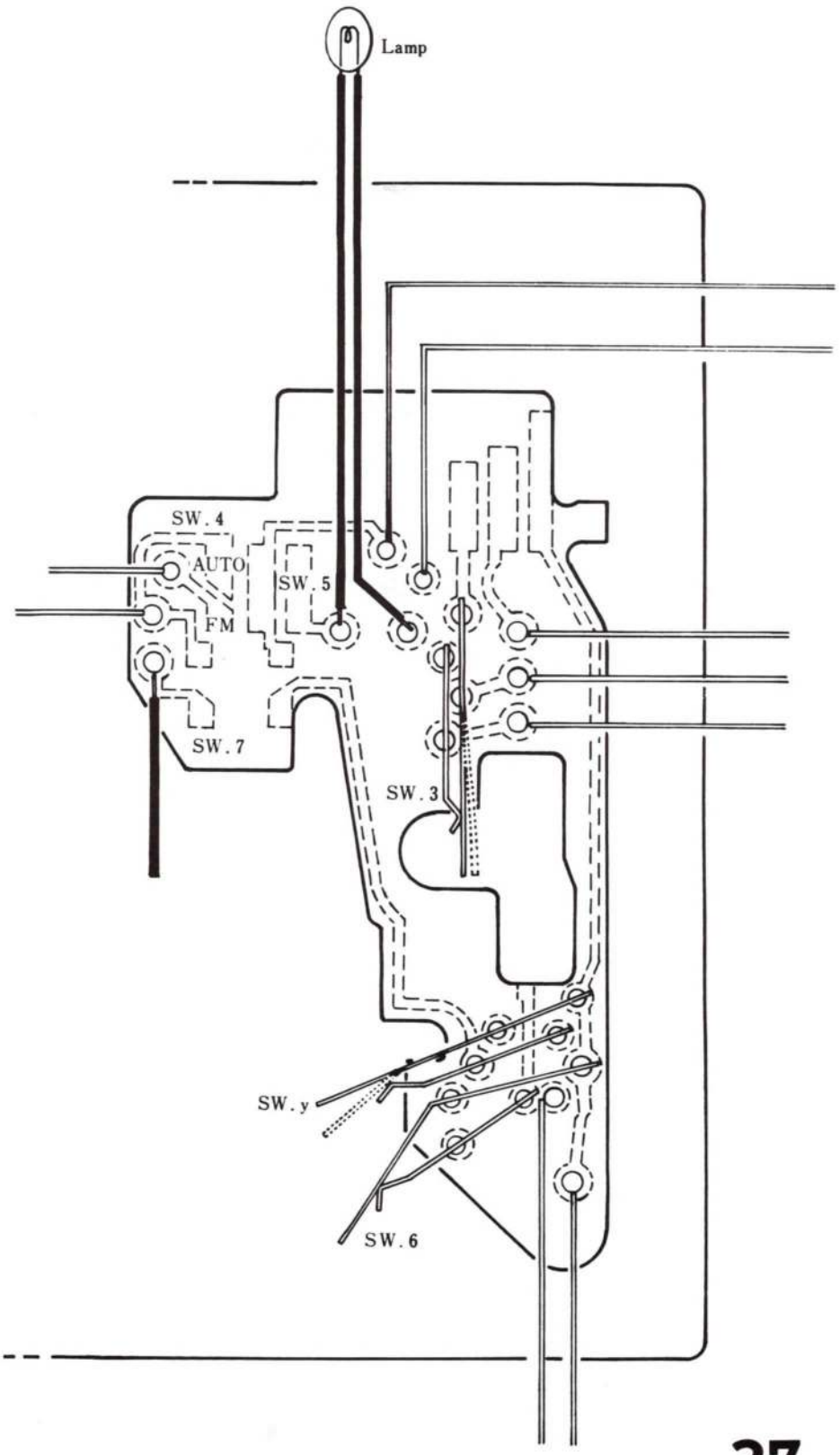


CIRCUIT DIAGRAM




S1/S2
R4
TIMING CAPACITOR
R1
SW3
R5
Tr1
R3
SWY
R2
Tr2
R8
R7
Tr3
ELECTROMAGNET
ARMATURE
SW6

EXPLANATORY OPERATION DRAWING B



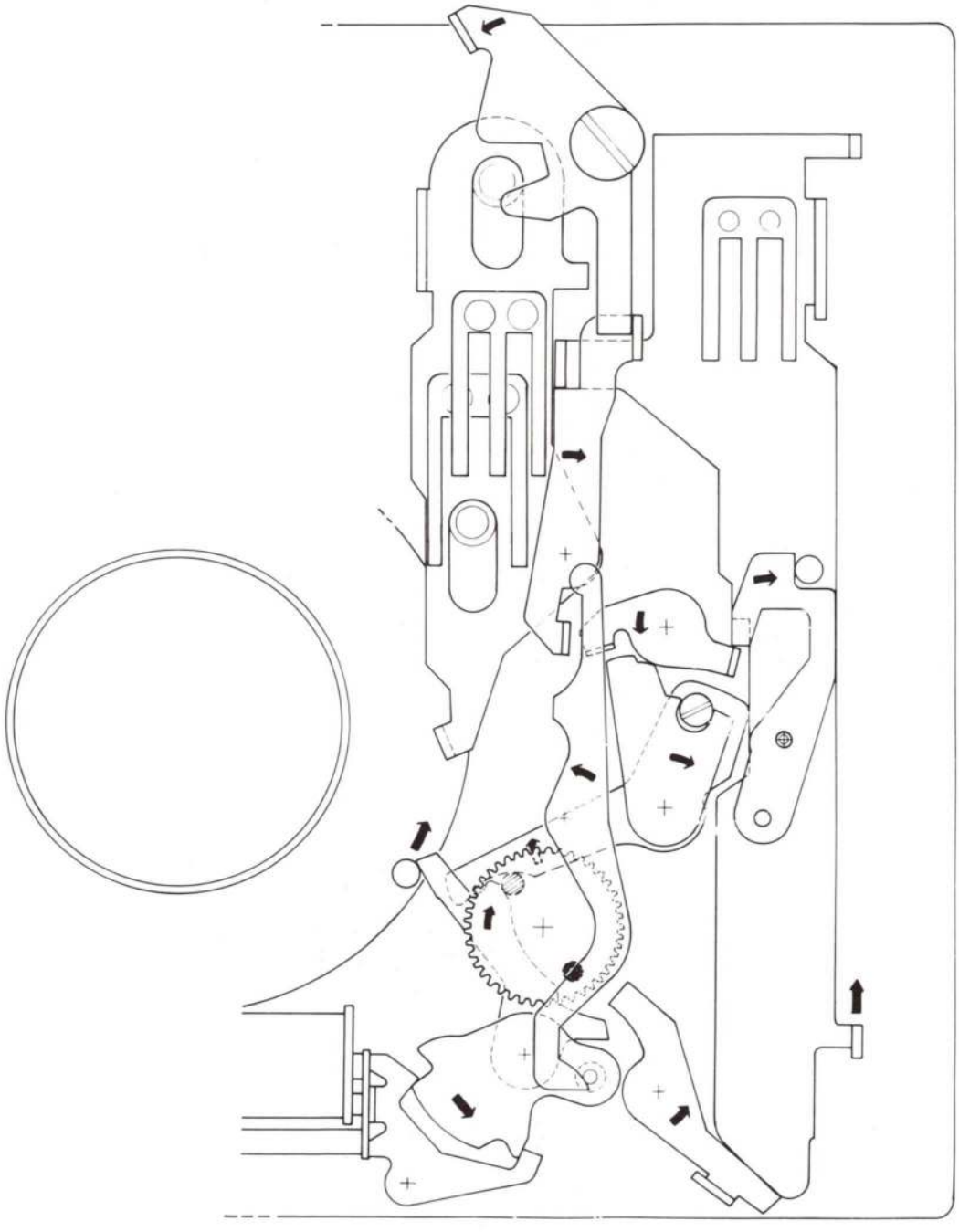
SWITCH CONDITION SHOWN BY SOLID LINES IS THAT PRIOR TO SHUTTER RELEASE

SWITCH CONDITION DURING RELEASE BUT BEFORE SECTORS OPENING IS INDICATED BY DOTTED LINES

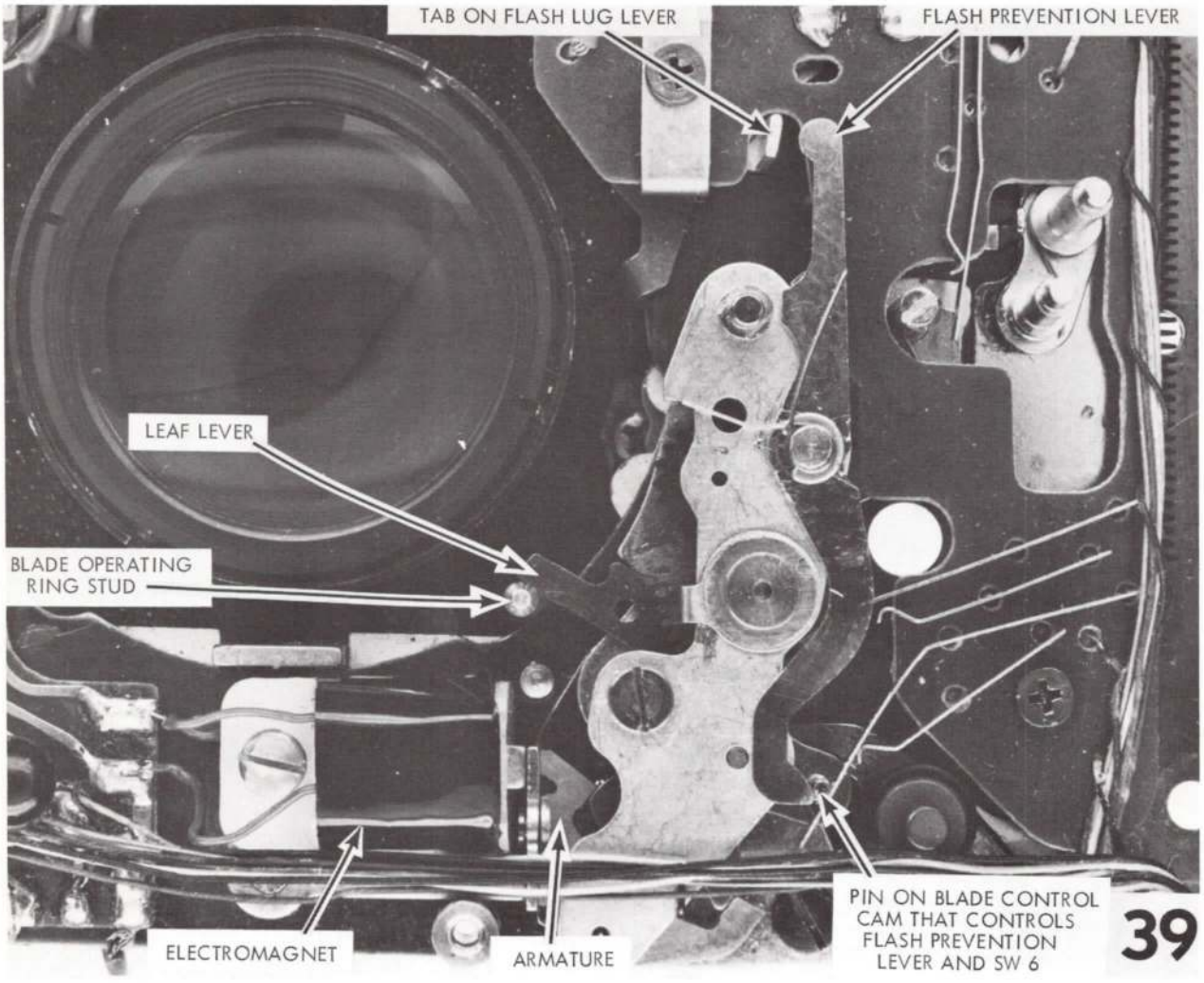
EXPLANATORY OPERATION DRAWING C

CONDITION DURING RELEASE (BUT PRIOR TO SECTORS' OPENING)

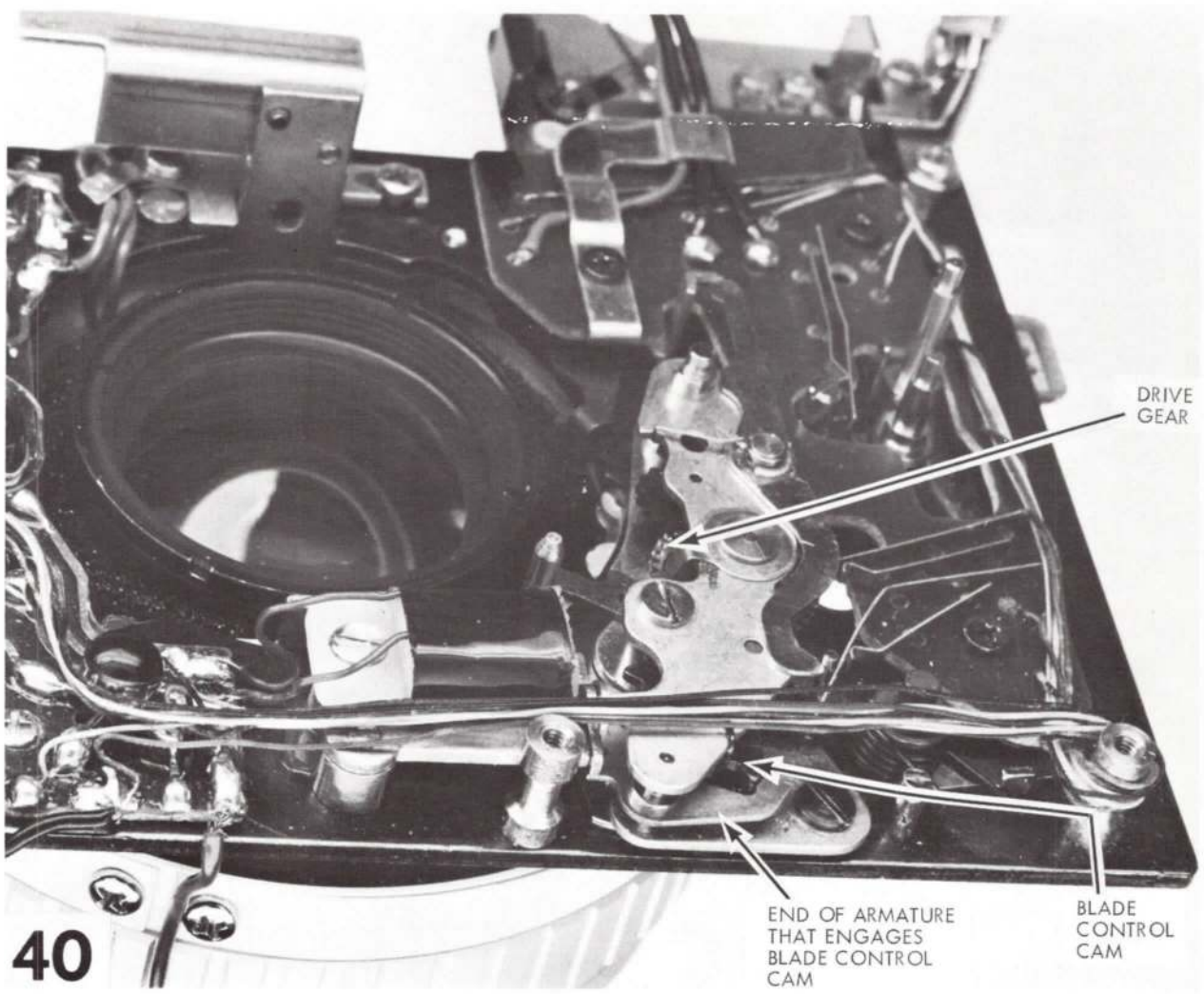
FLASH ATTACHED
FLASH SELECTOR SET AT AUTO
SUBJECT BRIGHTNESS: EV 6.5 OR LESS



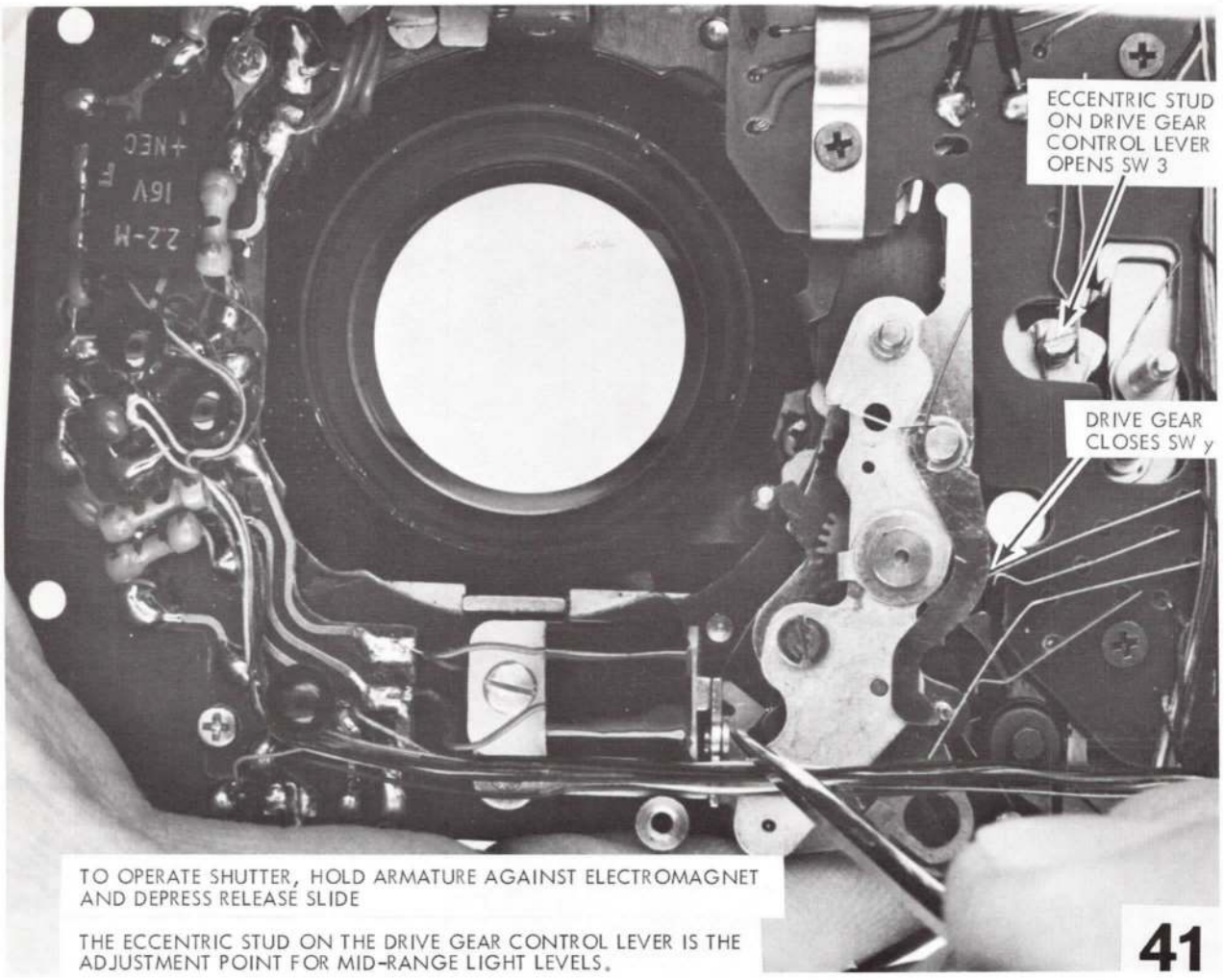
➡ ARROWS INDICATE DIRECTION IN WHICH SPRING FORCE ALWAYS ACTS


TAB ON FLASH LUG LEVER
FLASH PREVENTION LEVER
LEAF LEVER
BLADE OPERATING RING STUD
ELECTROMAGNET
ARMATURE
PIN ON BLADE CONTROL CAM THAT CONTROLS FLASH PREVENTION LEVER AND SW 6

39

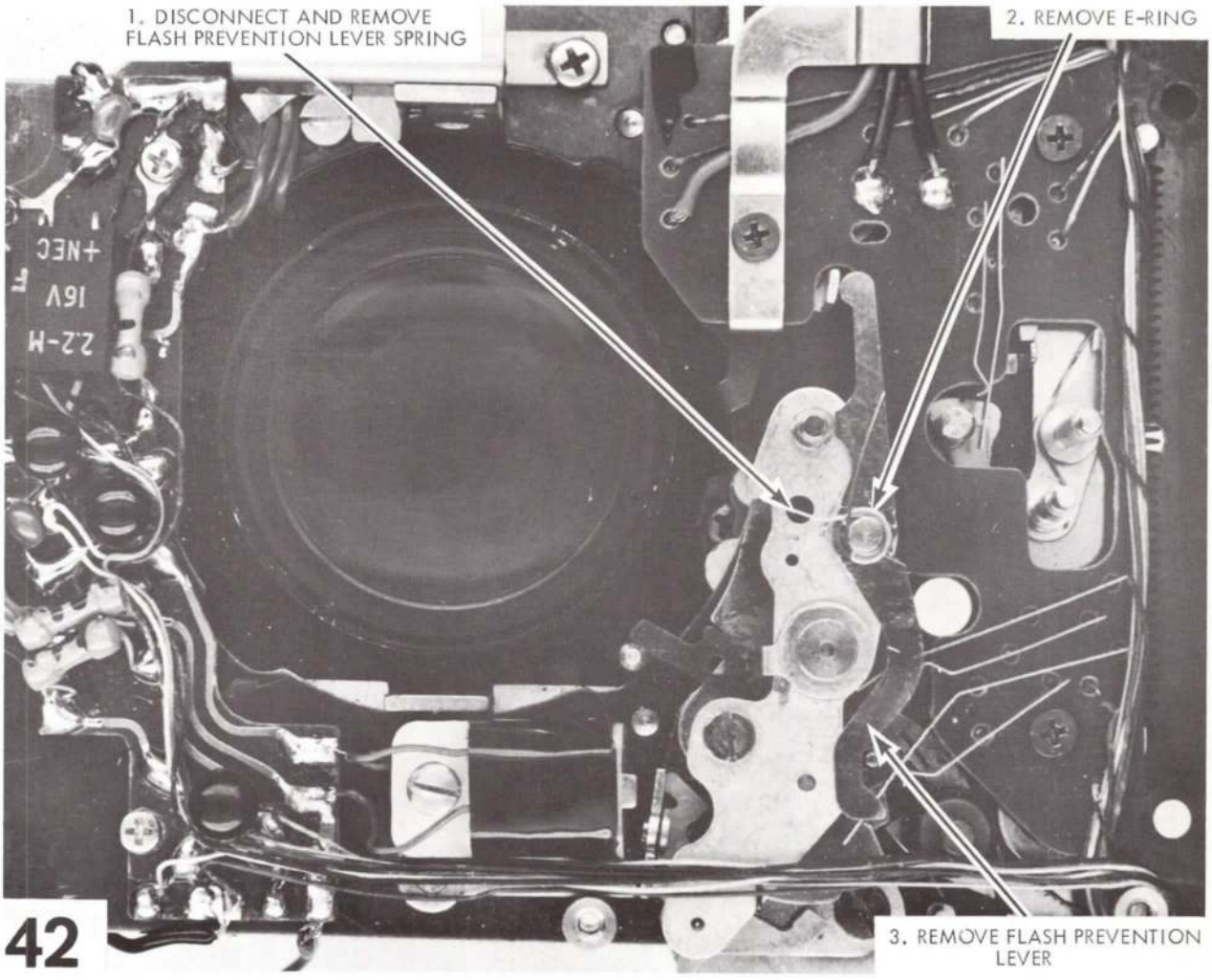

DRIVE GEAR
END OF ARMATURE THAT ENGAGES BLADE CONTROL CAM
BLADE CONTROL CAM

40

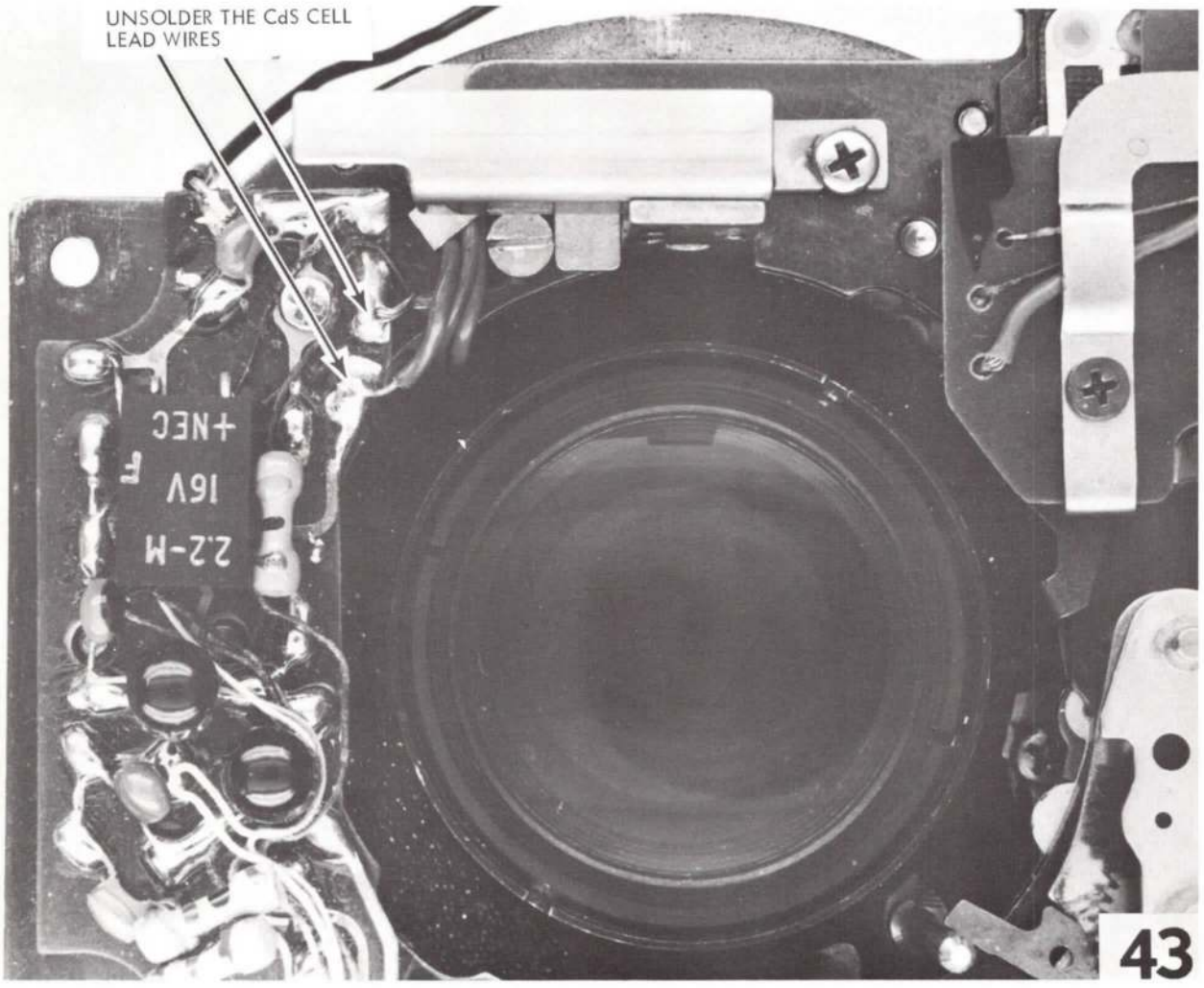


TO OPERATE SHUTTER, HOLD ARMATURE AGAINST ELECTROMAGNET AND DEPRESS RELEASE SLIDE

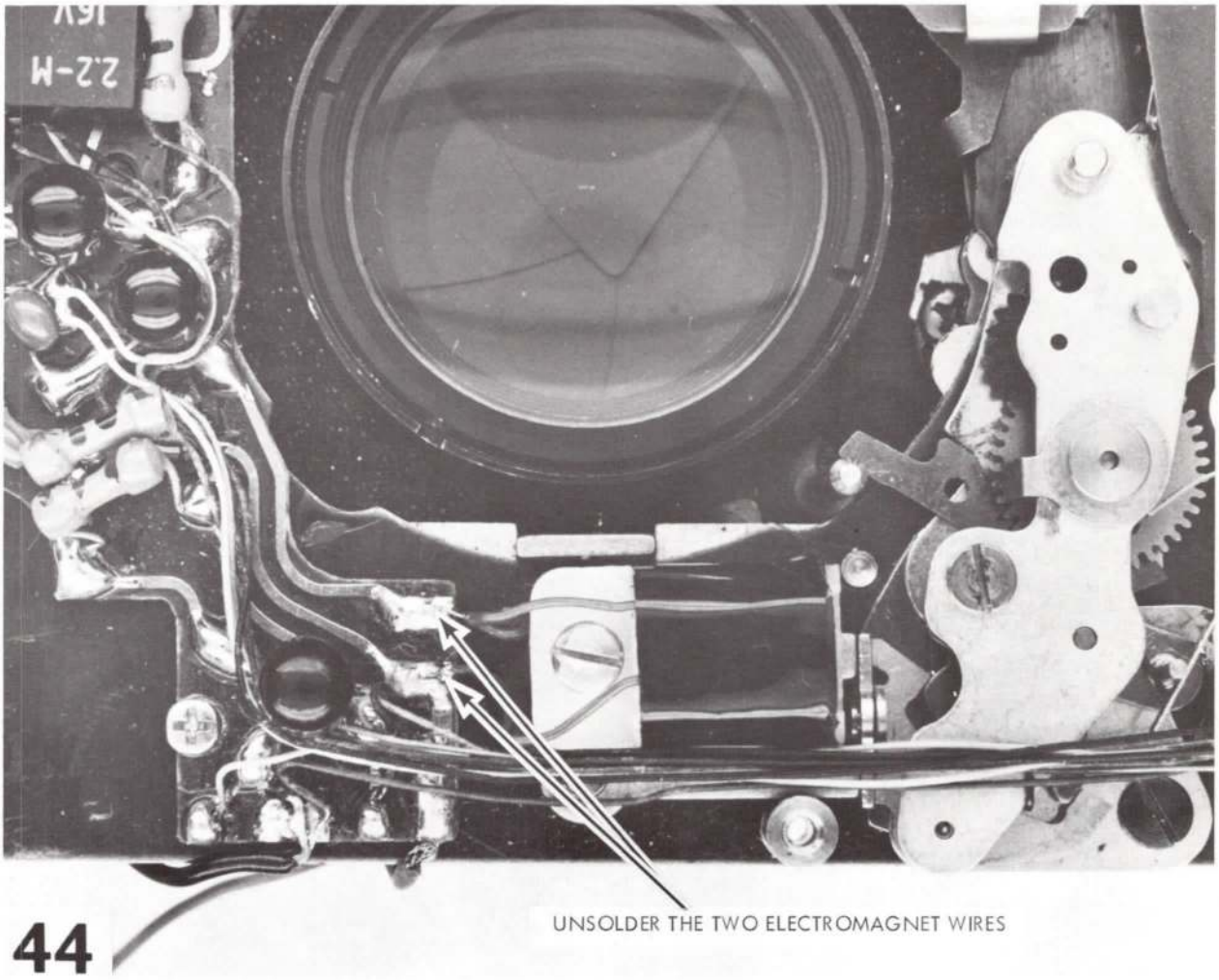
THE ECCENTRIC STUD ON THE DRIVE GEAR CONTROL LEVER IS THE ADJUSTMENT POINT FOR MID-RANGE LIGHT LEVELS.


1. DISCONNECT AND REMOVE FLASH PREVENTION LEVER SPRING
2. REMOVE E-RING
3. REMOVE FLASH PREVENTION LEVER

42

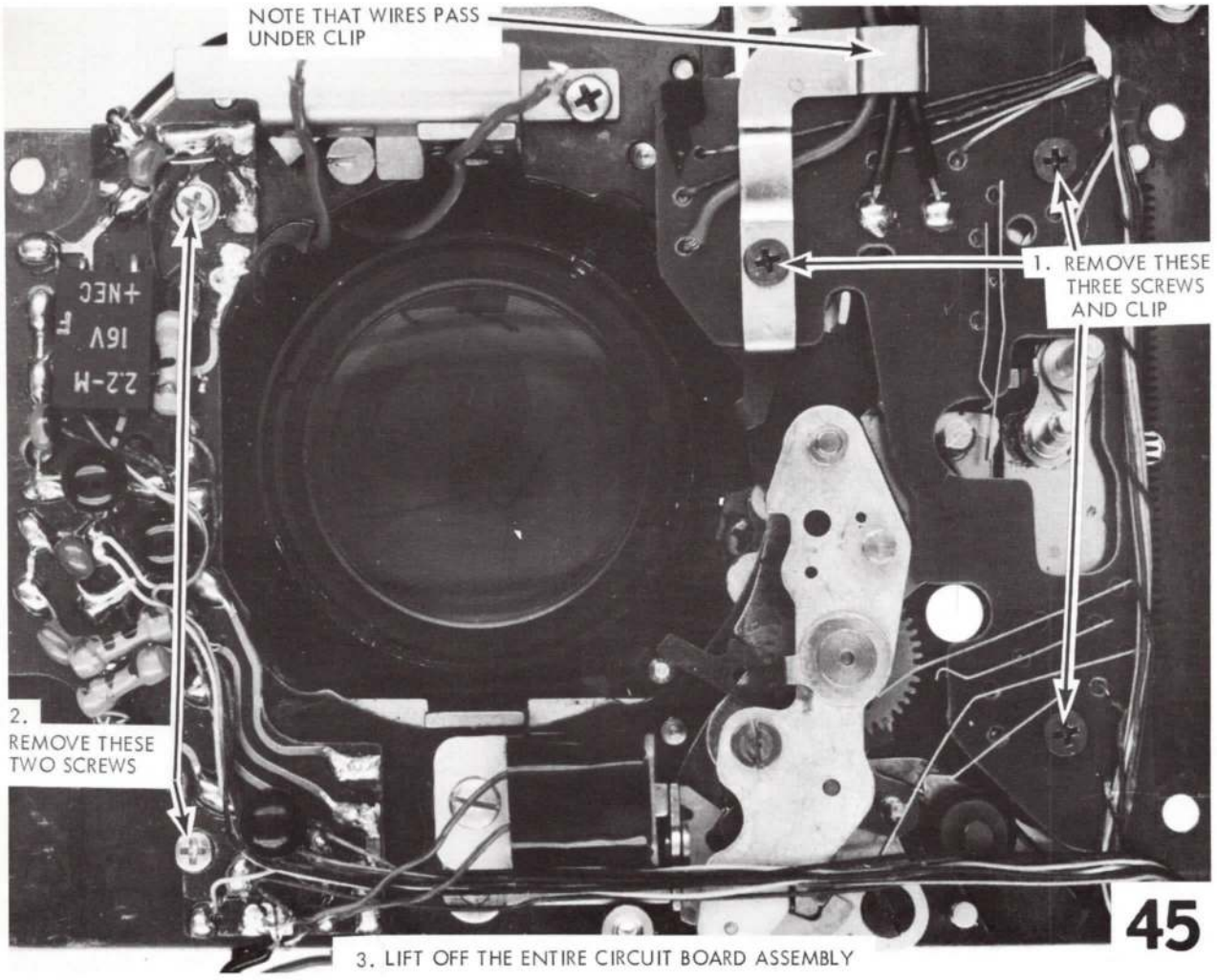


43

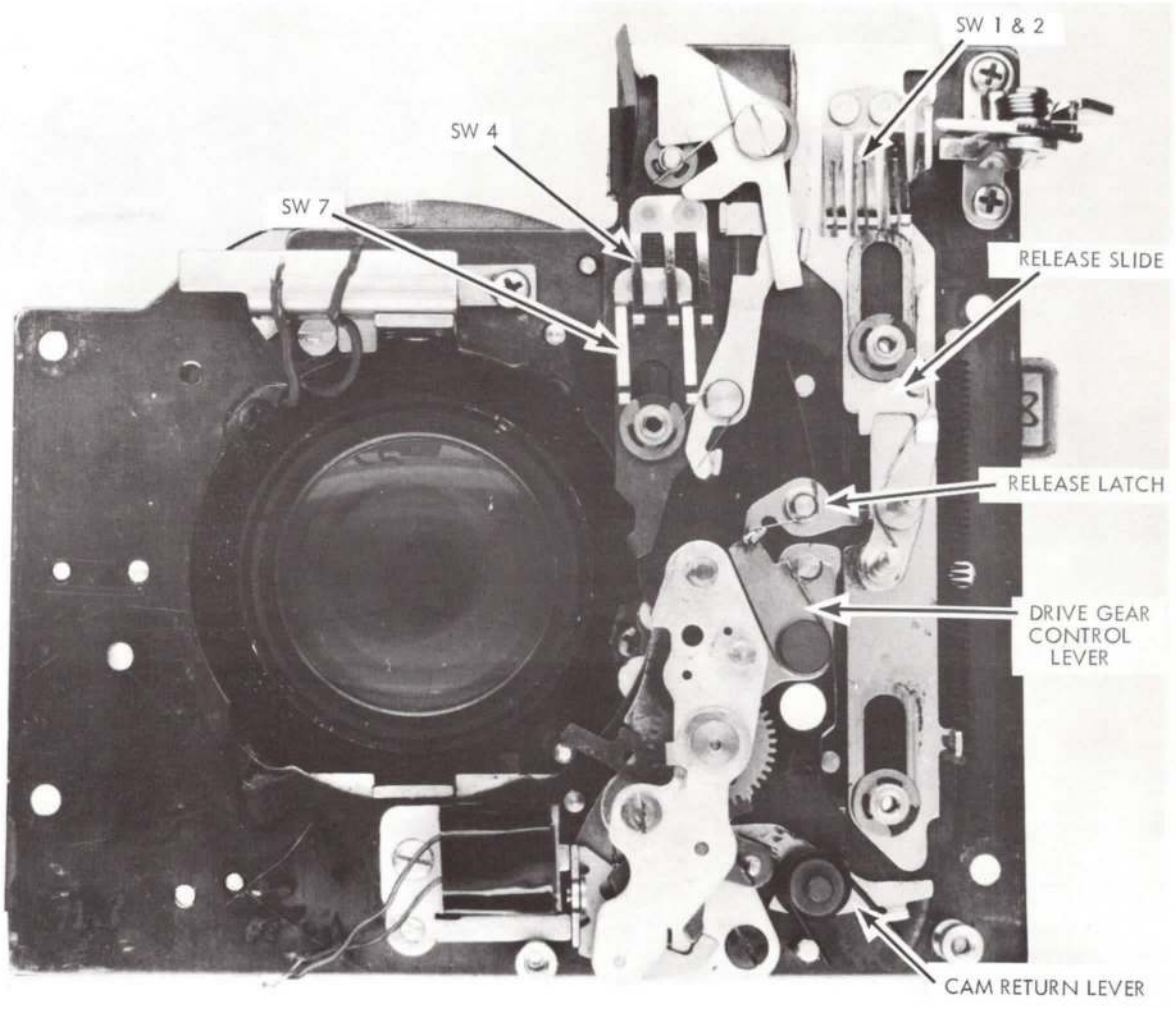


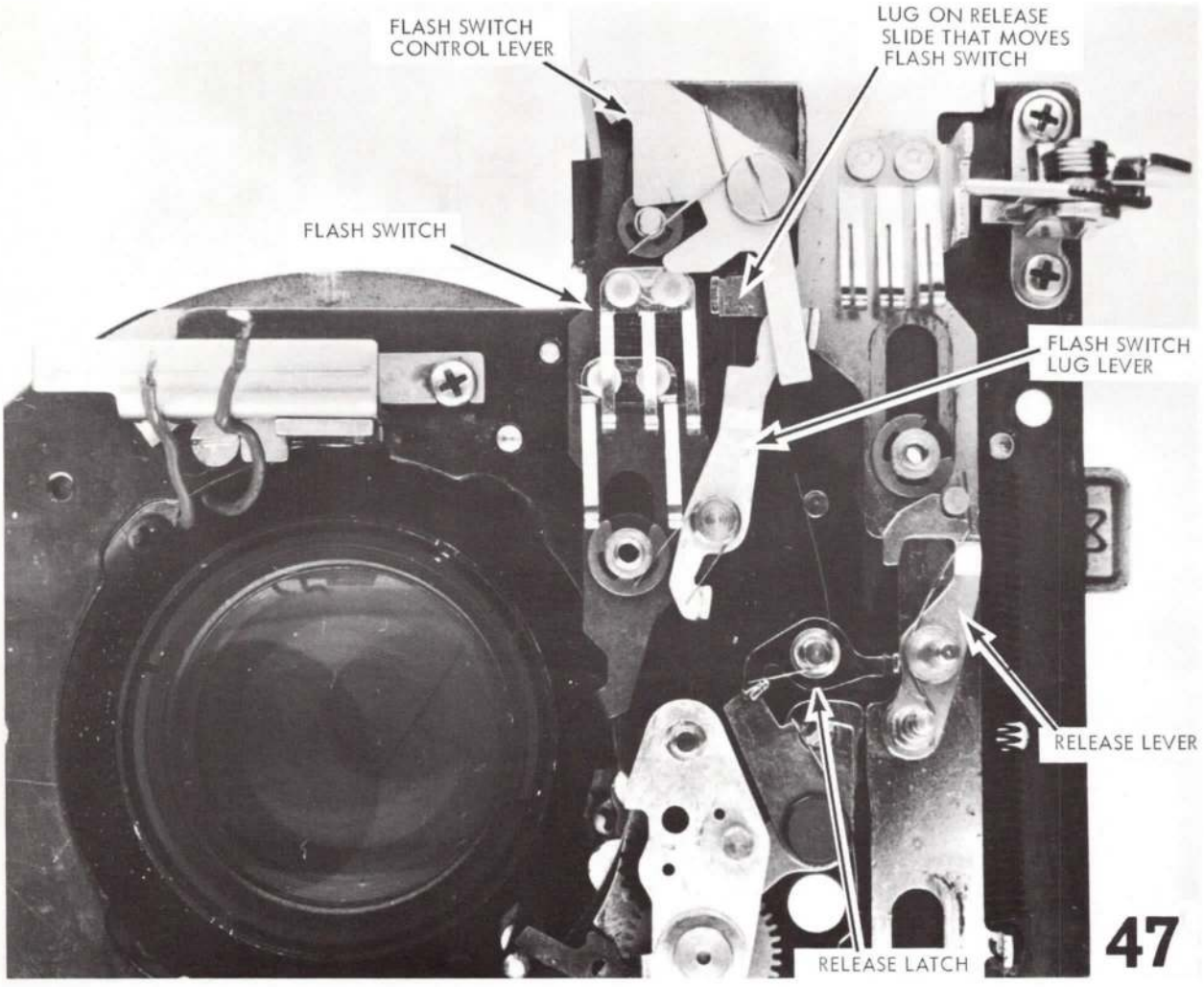
UNSOLDER THE TWO ELECTROMAGNET WIRES

44

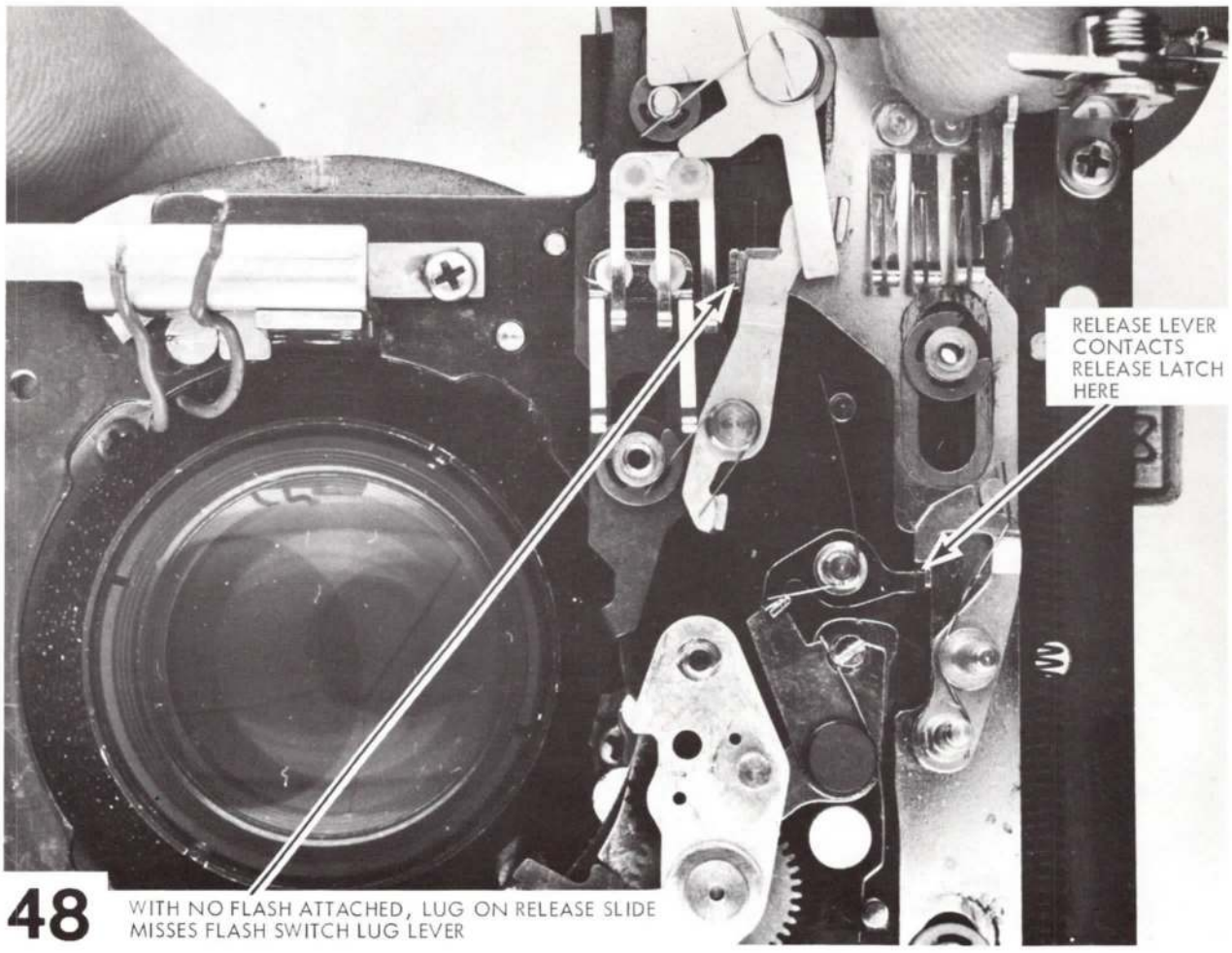

NOTE THAT WIRES PASS UNDER CLIP
1. REMOVE THESE THREE SCREWS AND CLIP
2. REMOVE THESE TWO SCREWS
3. LIFT OFF THE ENTIRE CIRCUIT BOARD ASSEMBLY

45

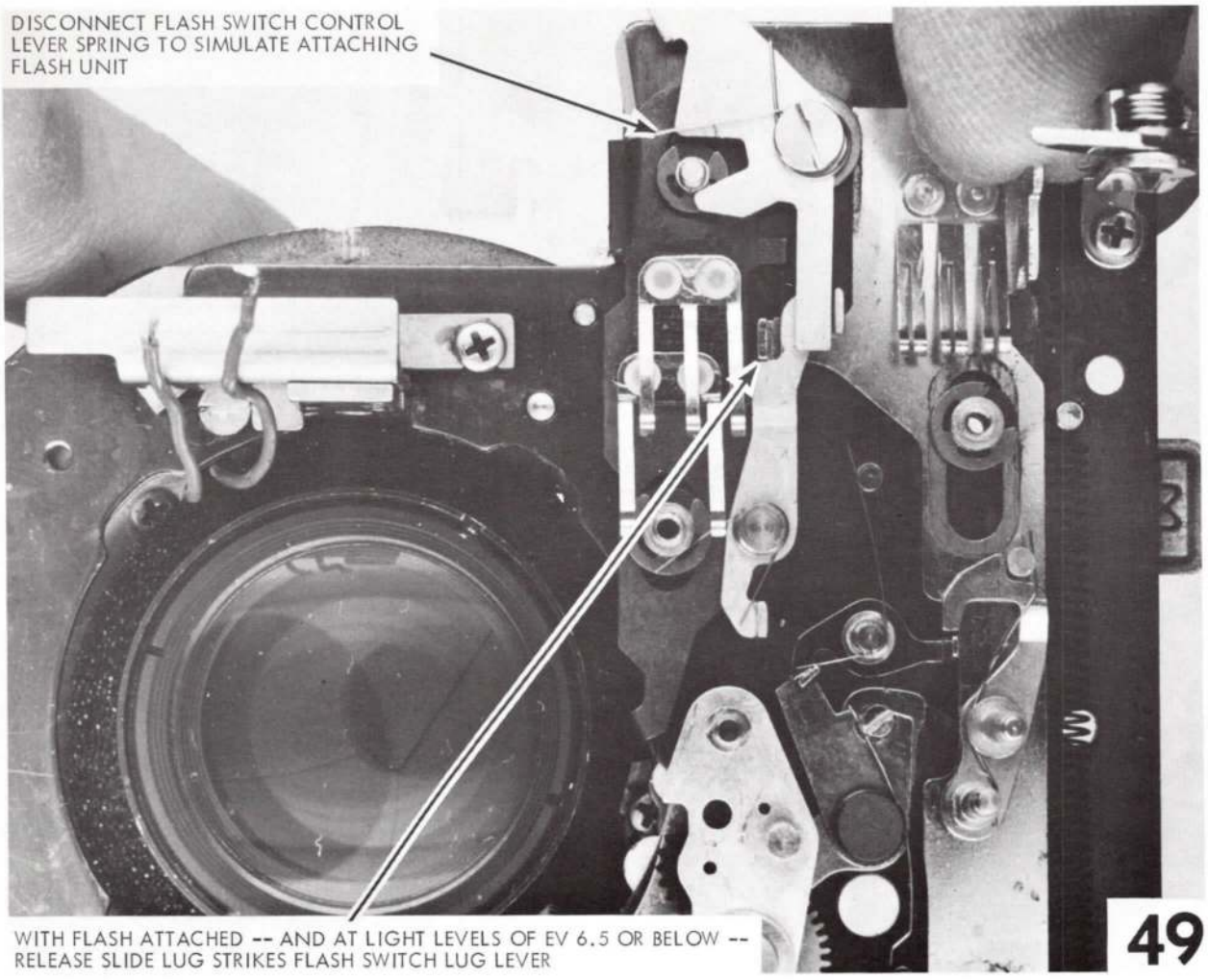

SW 1 & 2
SW 4
SW 7
RELEASE SLIDE
RELEASE LATCH
DRIVE GEAR CONTROL LEVER
CAM RETURN LEVER

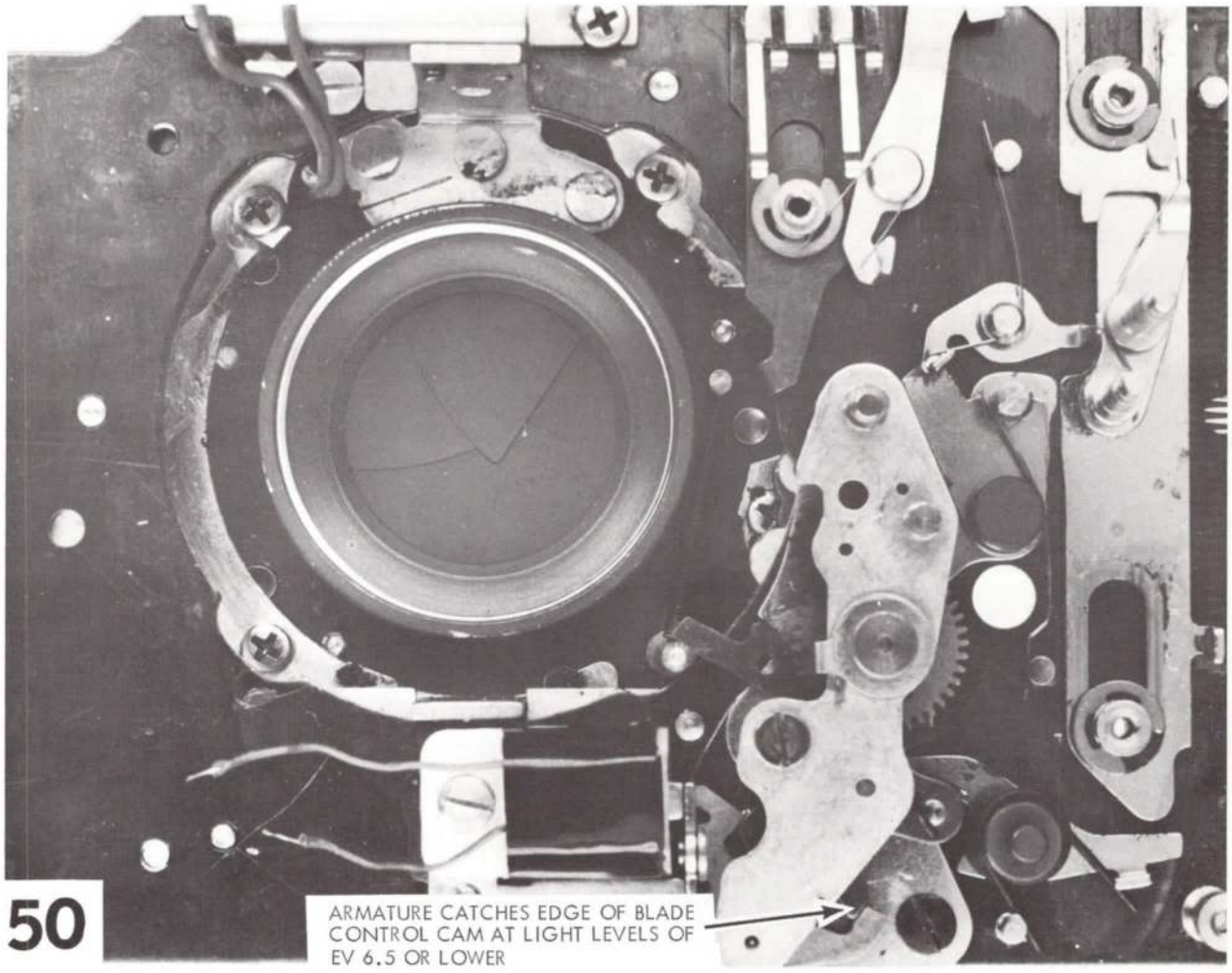

FLASH SWITCH
CONTROL LEVER
LUG ON RELEASE
SLIDE THAT MOVES
FLASH SWITCH
FLASH SWITCH
FLASH SWITCH
LUG LEVER
RELEASE LEVER
RELEASE LATCH

47



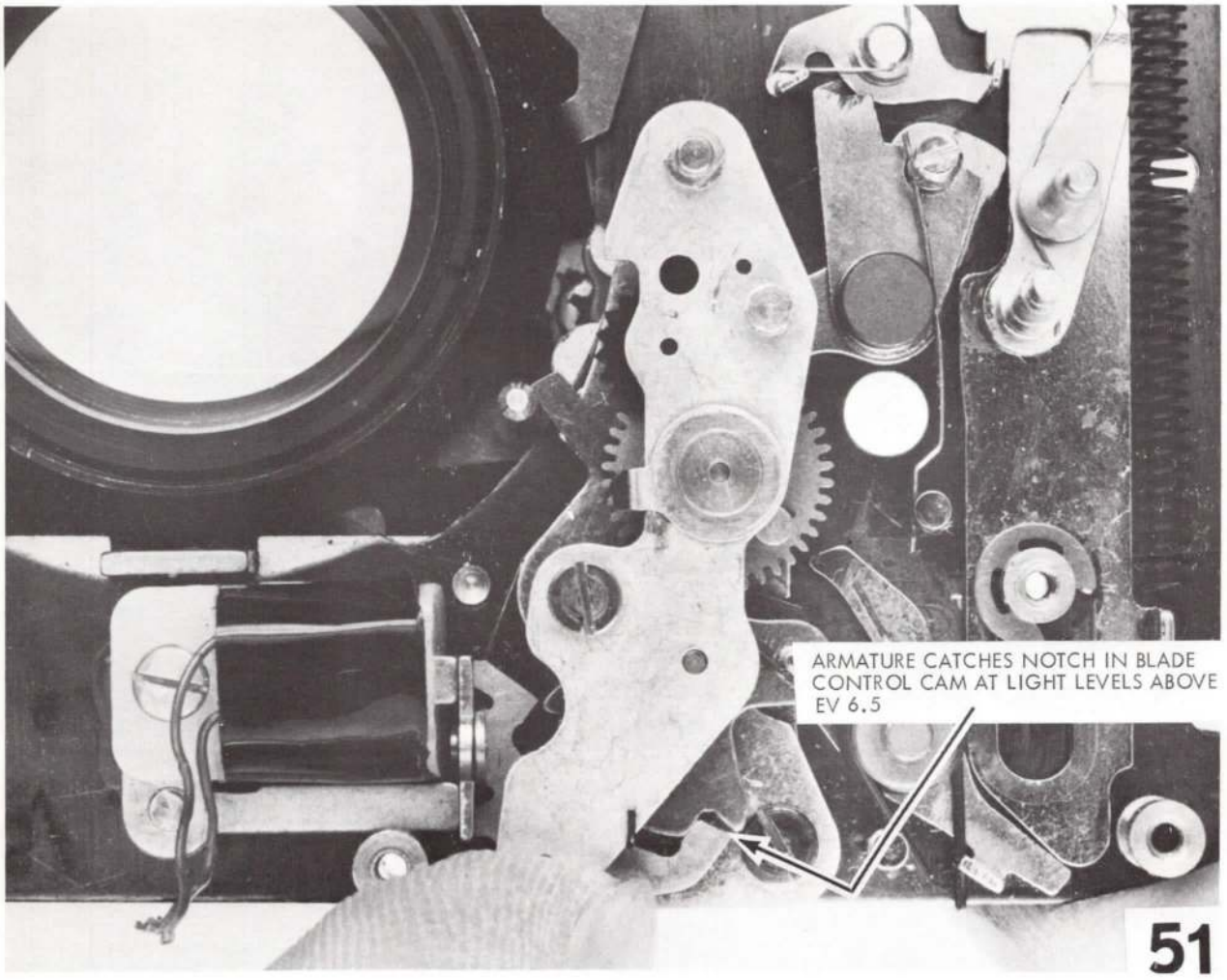
48 WITH NO FLASH ATTACHED, LUG ON RELEASE SLIDE MISSES FLASH SWITCH LUG LEVER


DISCONNECT FLASH SWITCH CONTROL LEVER SPRING TO SIMULATE ATTACHING FLASH UNIT
WITH FLASH ATTACHED -- AND AT LIGHT LEVELS OF EV 6.5 OR BELOW -- RELEASE SLIDE LUG STRIKES FLASH SWITCH LUG LEVER

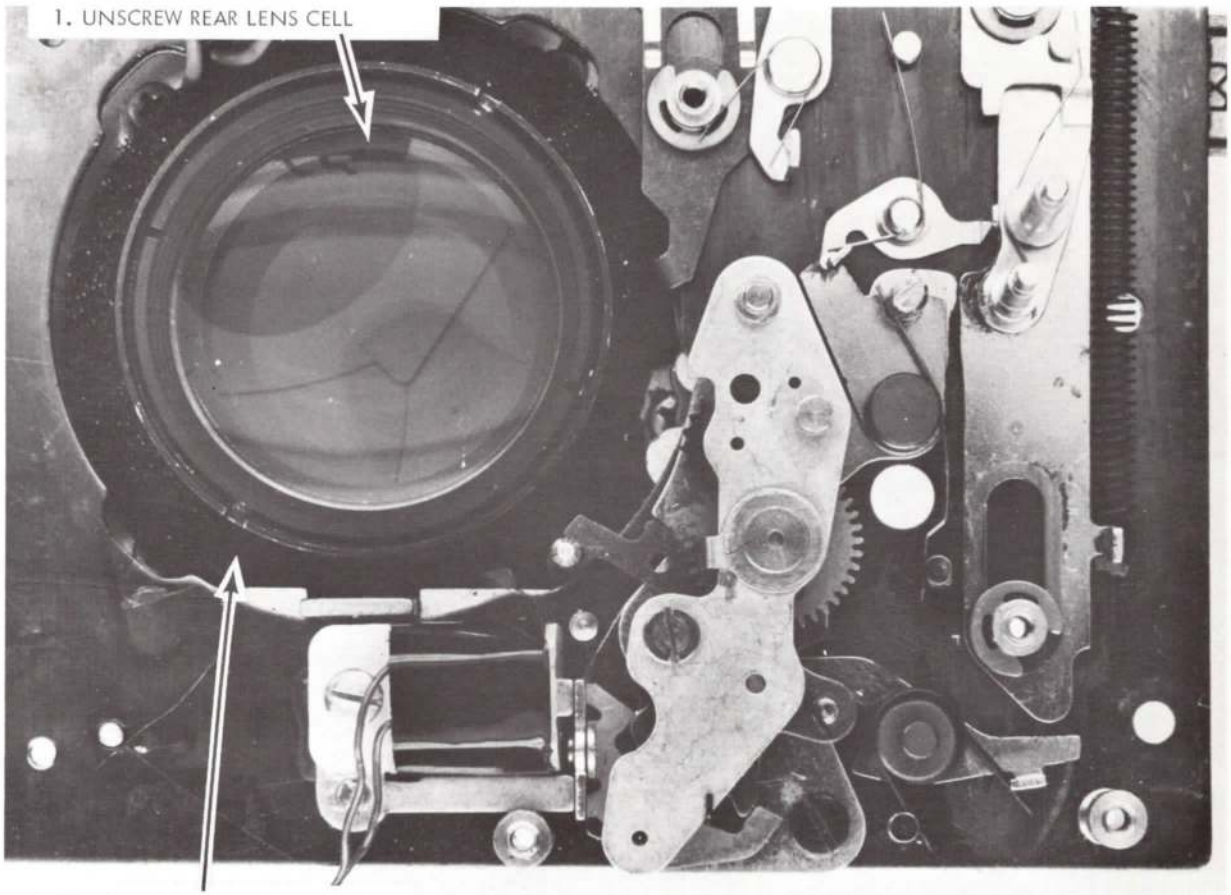


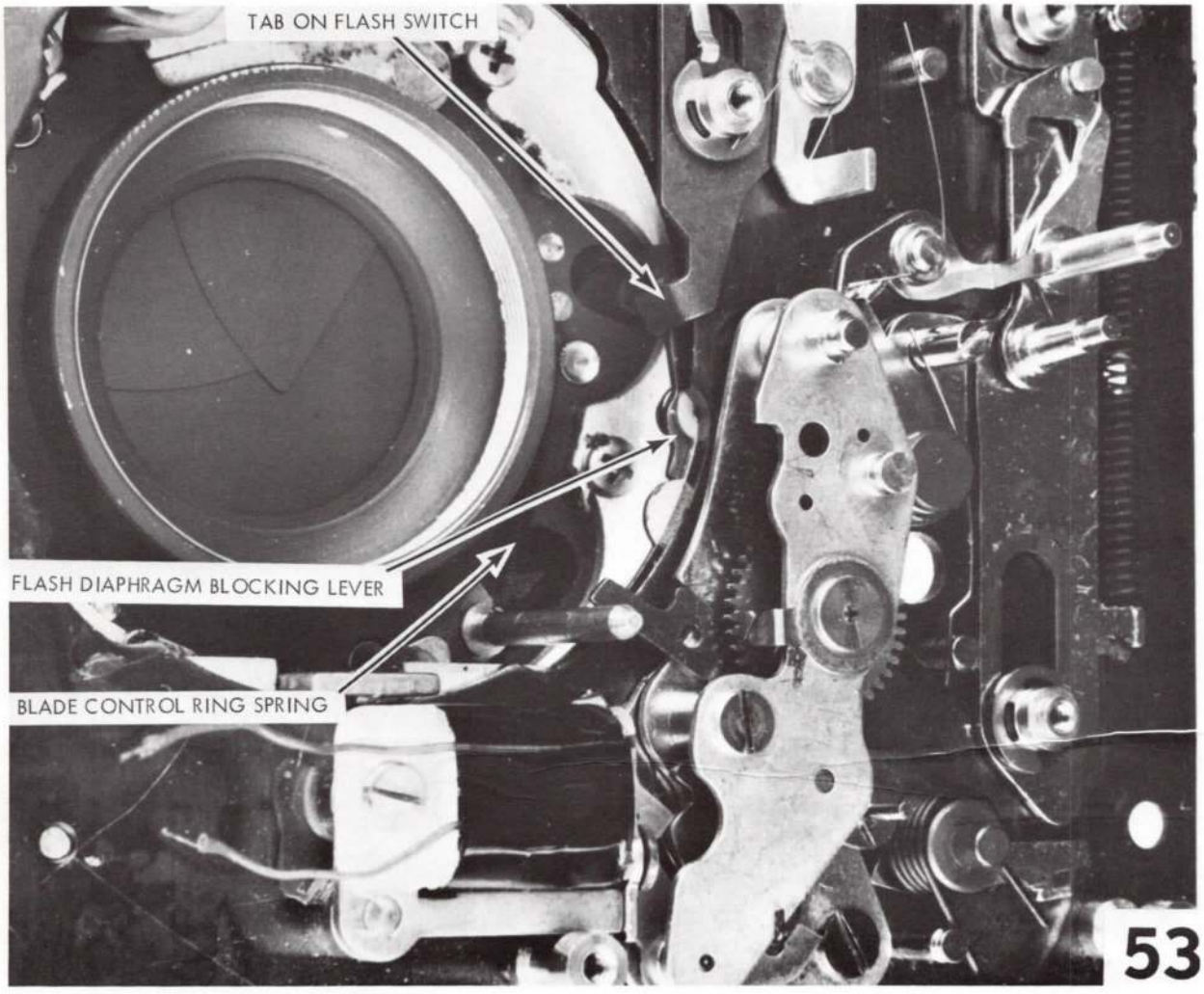
50

ARMATURE CATCHES EDGE OF BLADE CONTROL CAM AT LIGHT LEVELS OF EV 6.5 OR LOWER

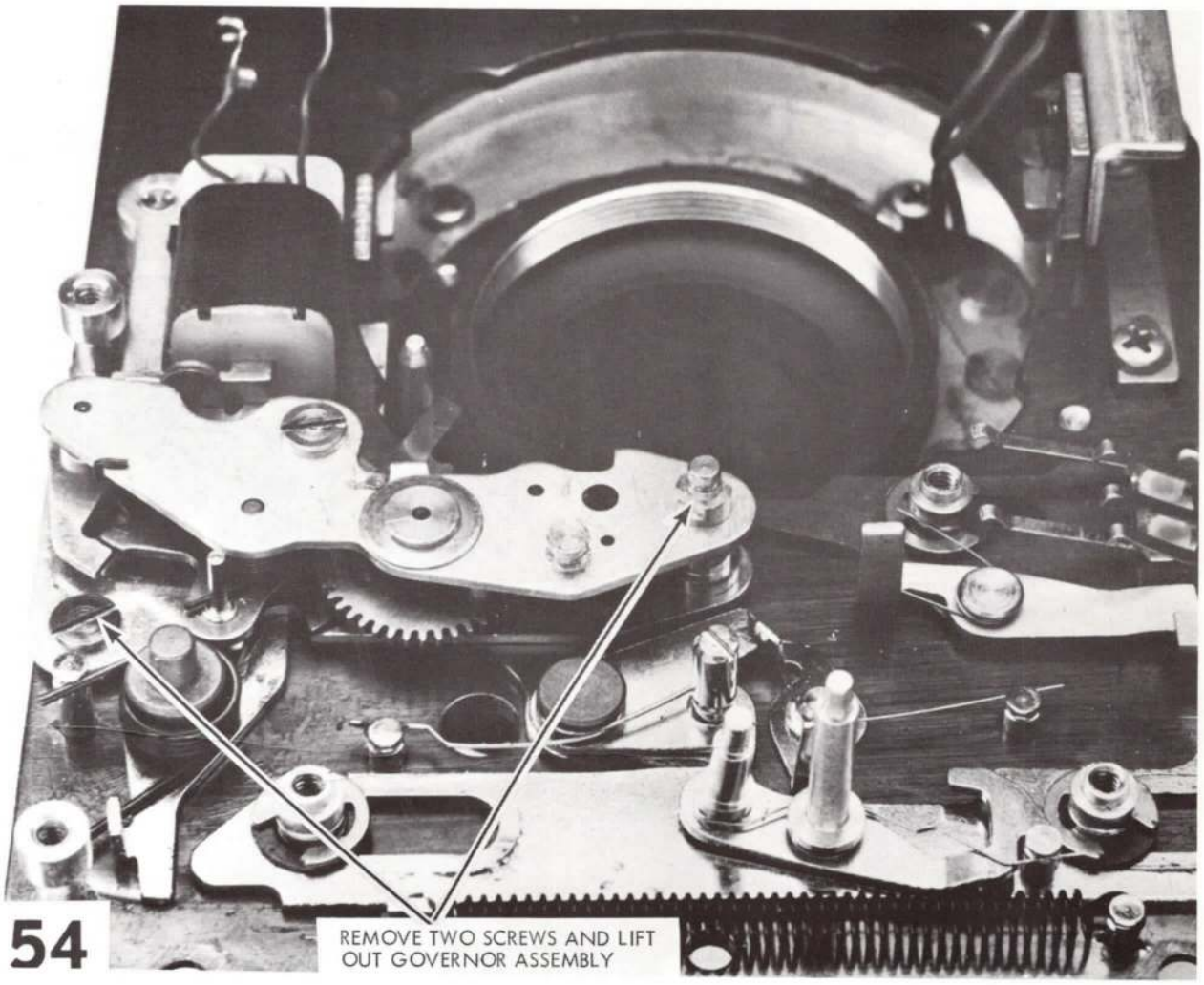

ARMATURE CATCHES NOTCH IN BLADE CONTROL CAM AT LIGHT LEVELS ABOVE EV 6.5

51

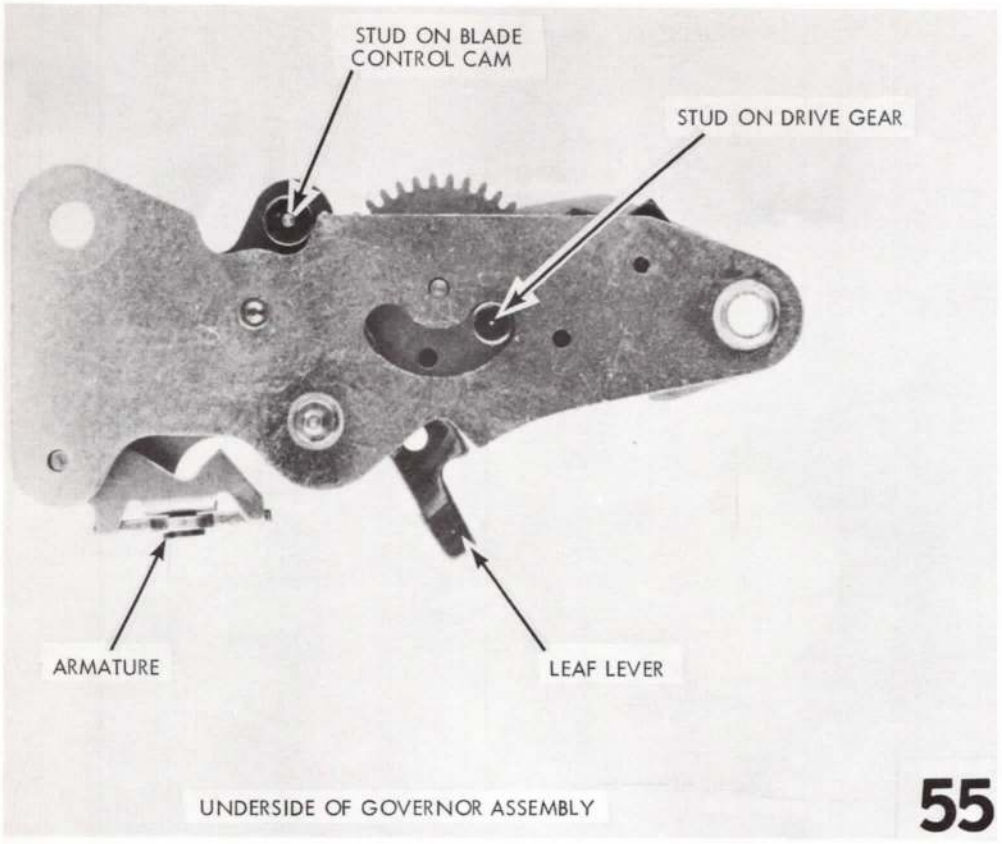

1. UNSCREW REAR LENS CELL
2. REMOVE POROUS PLASTIC RING


TAB ON FLASH SWITCH
FLASH DIAPHRAGM BLOCKING LEVER
BLADE CONTROL RING SPRING

53

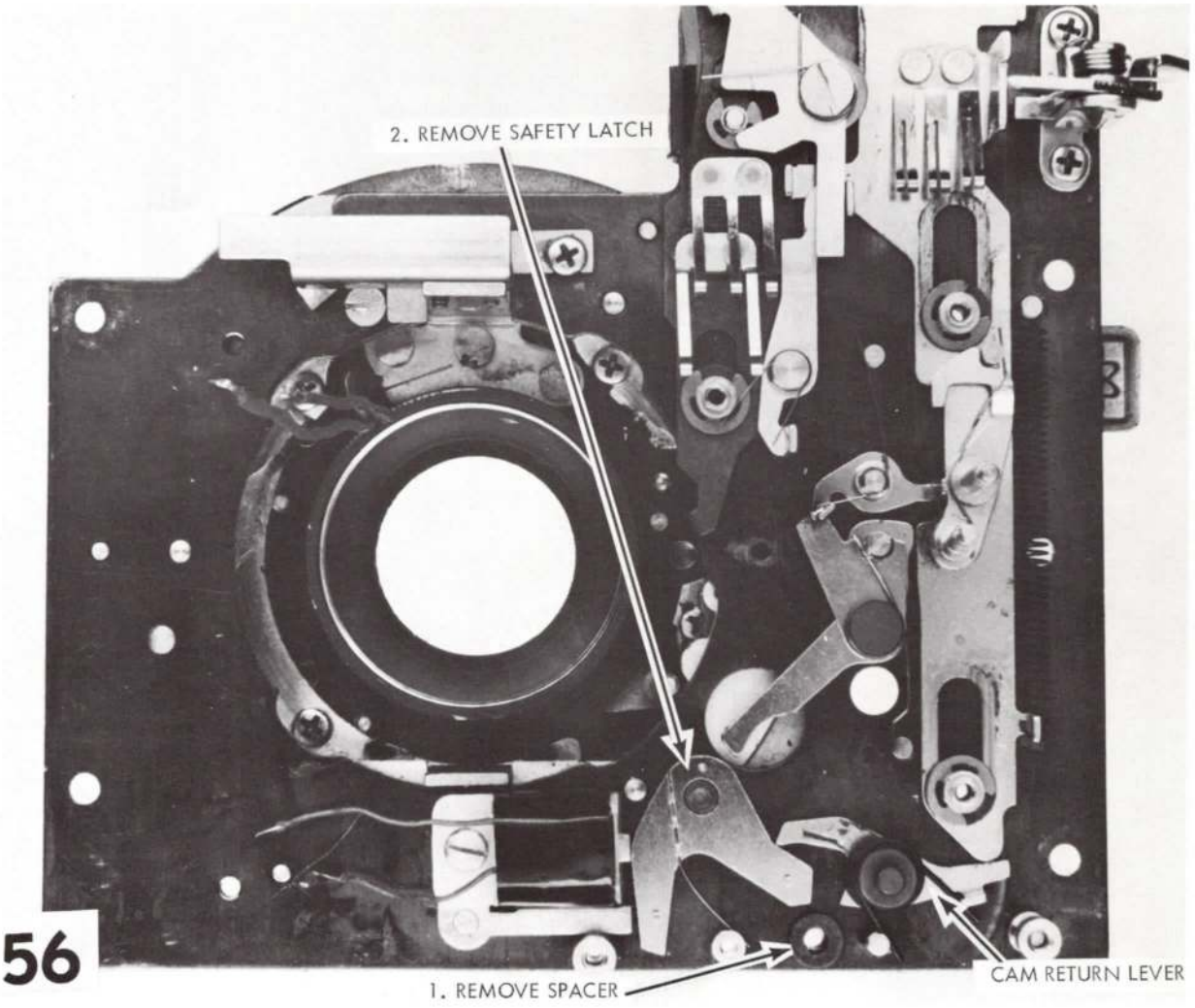


54 REMOVE TWO SCREWS AND LIFT OUT GOVERNOR ASSEMBLY

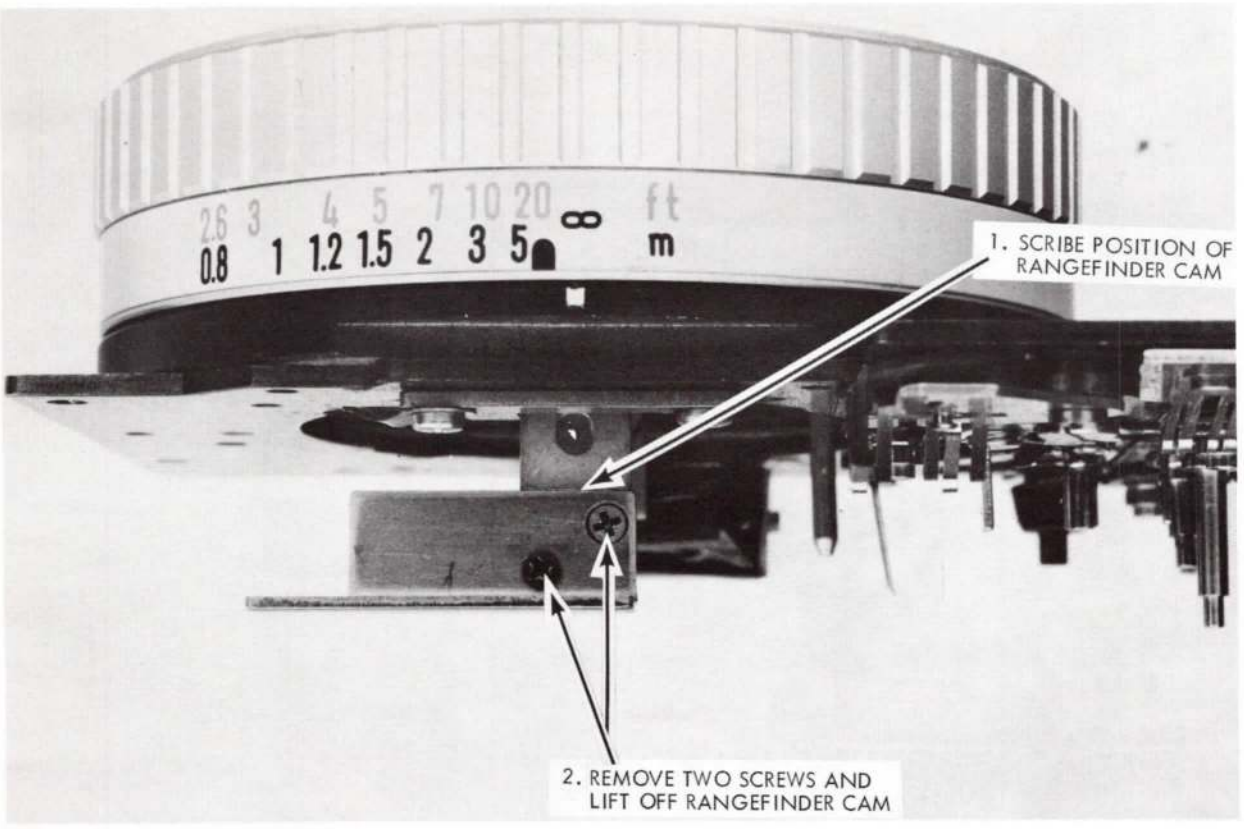


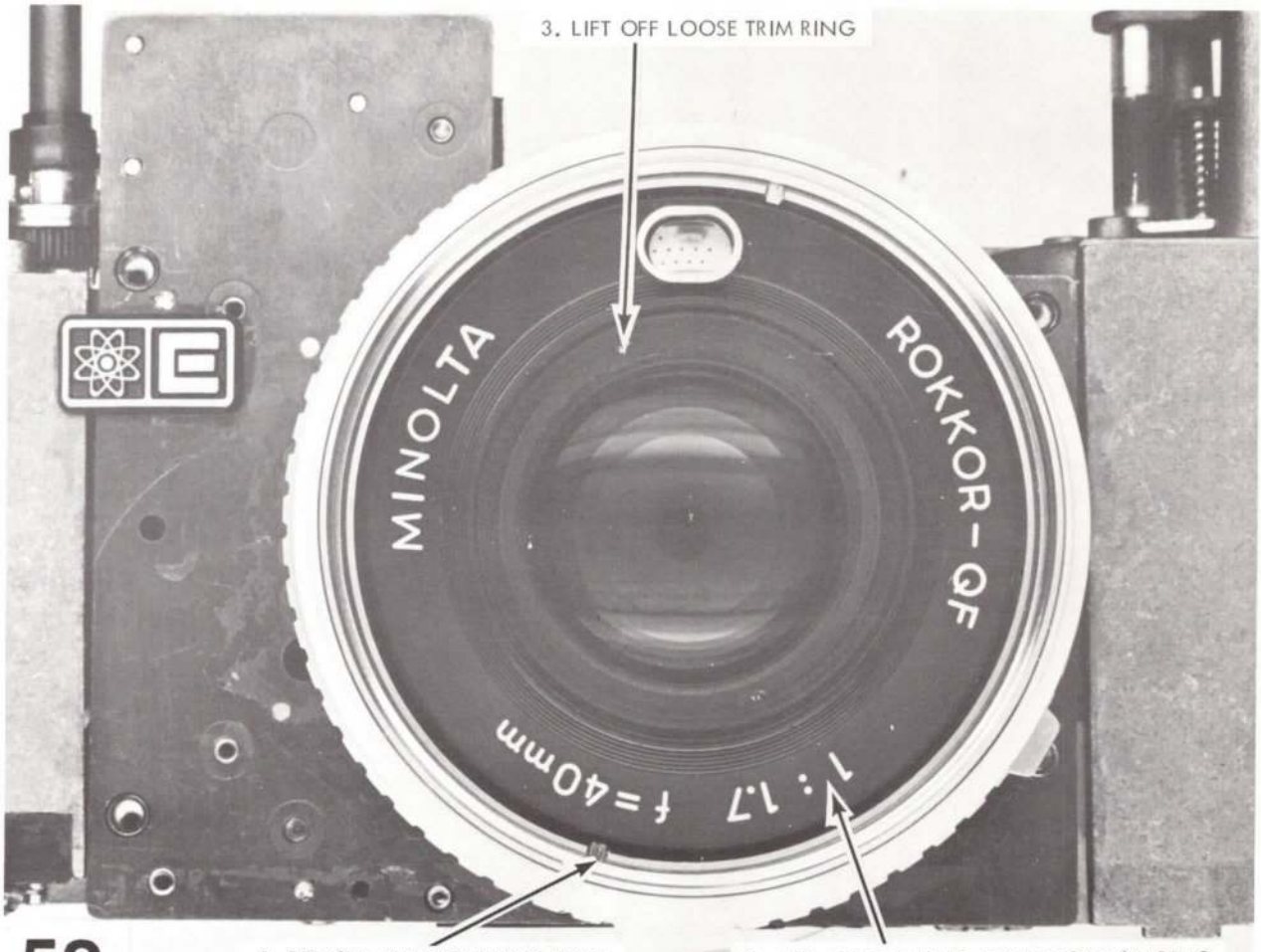
UNDERSIDE OF GOVERNOR ASSEMBLY

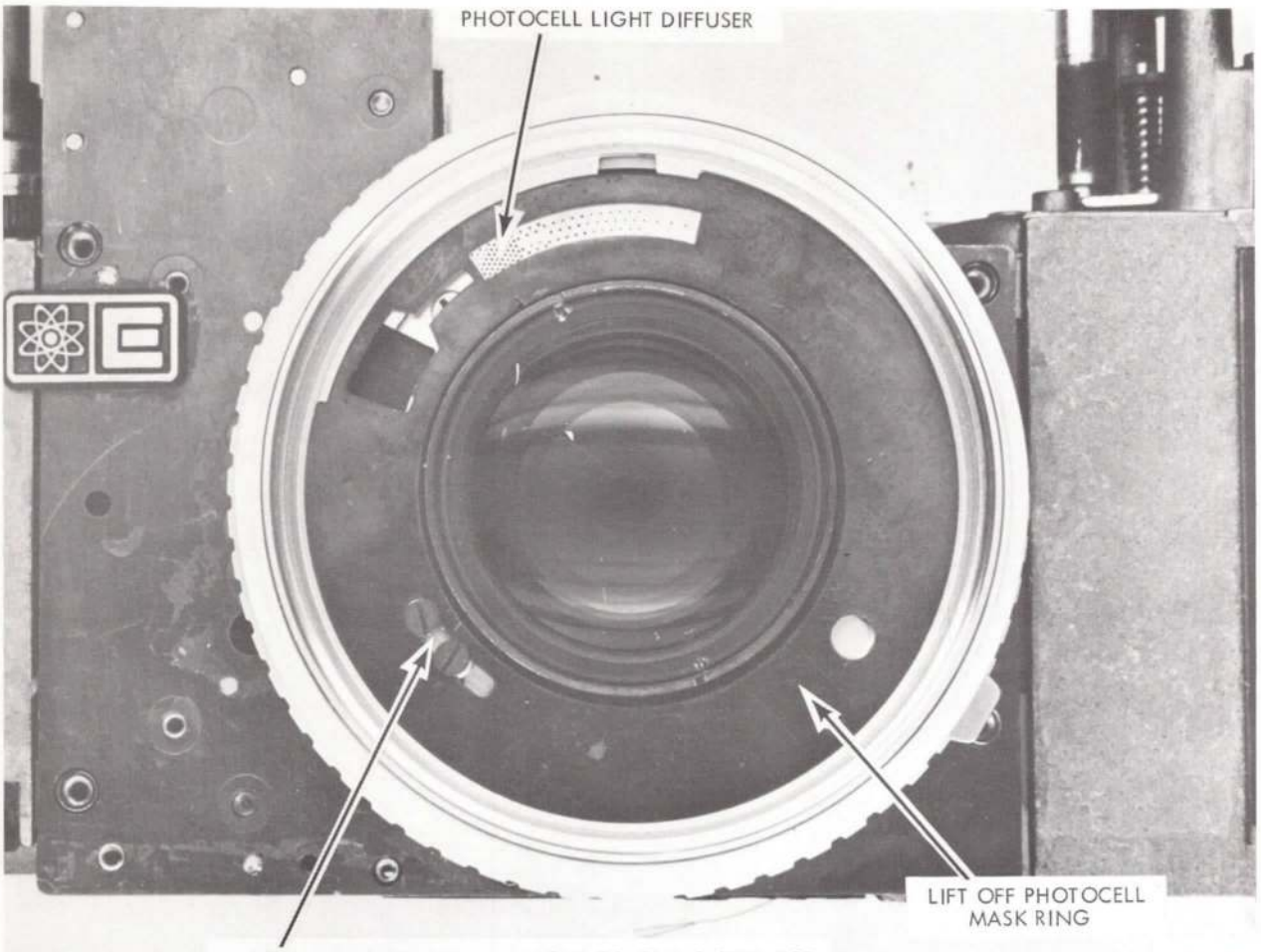
55

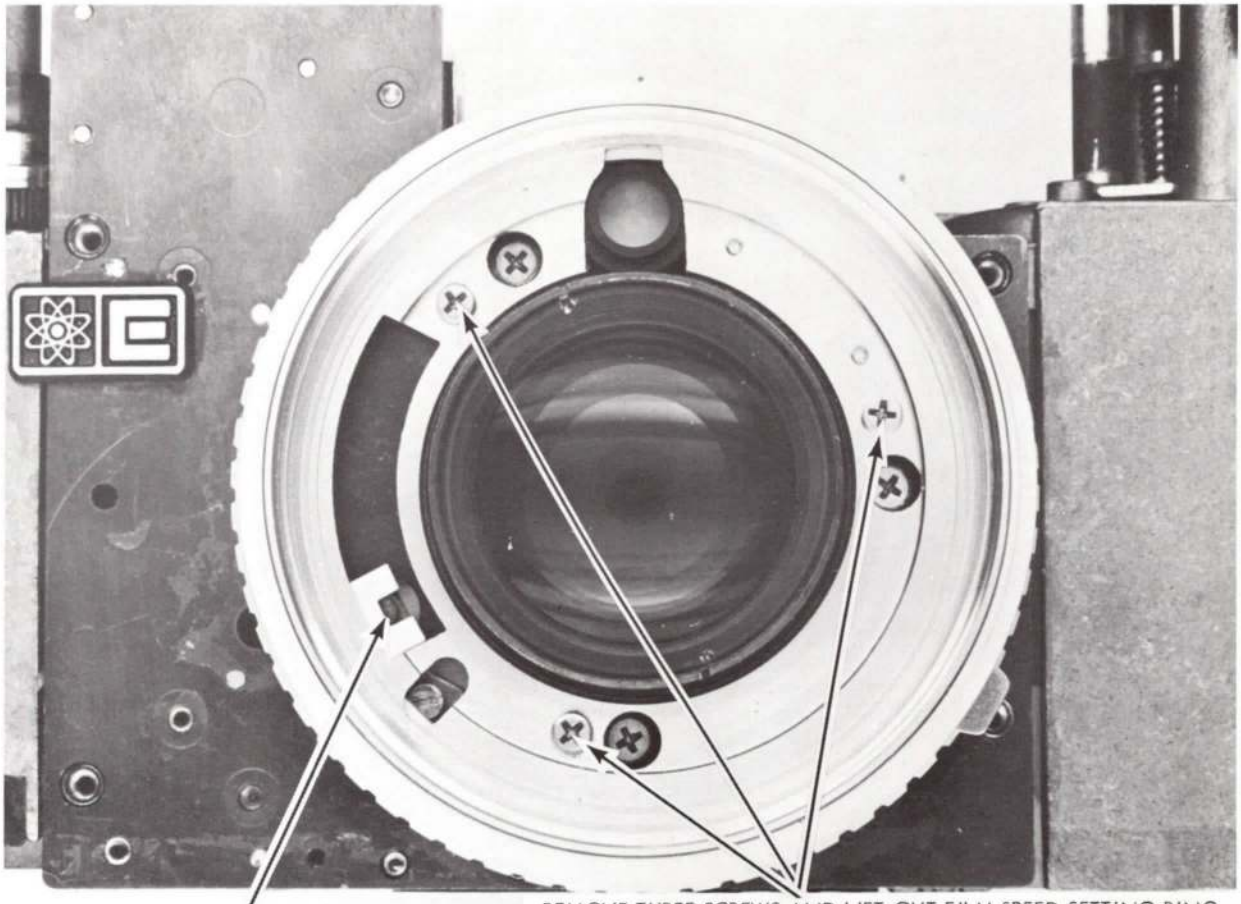


56


2.6 3 4 5 7 10 20 ∞ ft
0.8 1 1.2 1.5 2 3 5 m
1. SCRIBE POSITION OF RANGEFINDER CAM
2. REMOVE TWO SCREWS AND LIFT OFF RANGEFINDER CAM


3. LIFT OFF LOOSE TRIM RING
MINOLTA
ROKKOR-QF
1:1.7 f=40mm
1. REMOVE THE RETAINING RING
2. LIFT OFF THE LENS IDENTIFICATION RING

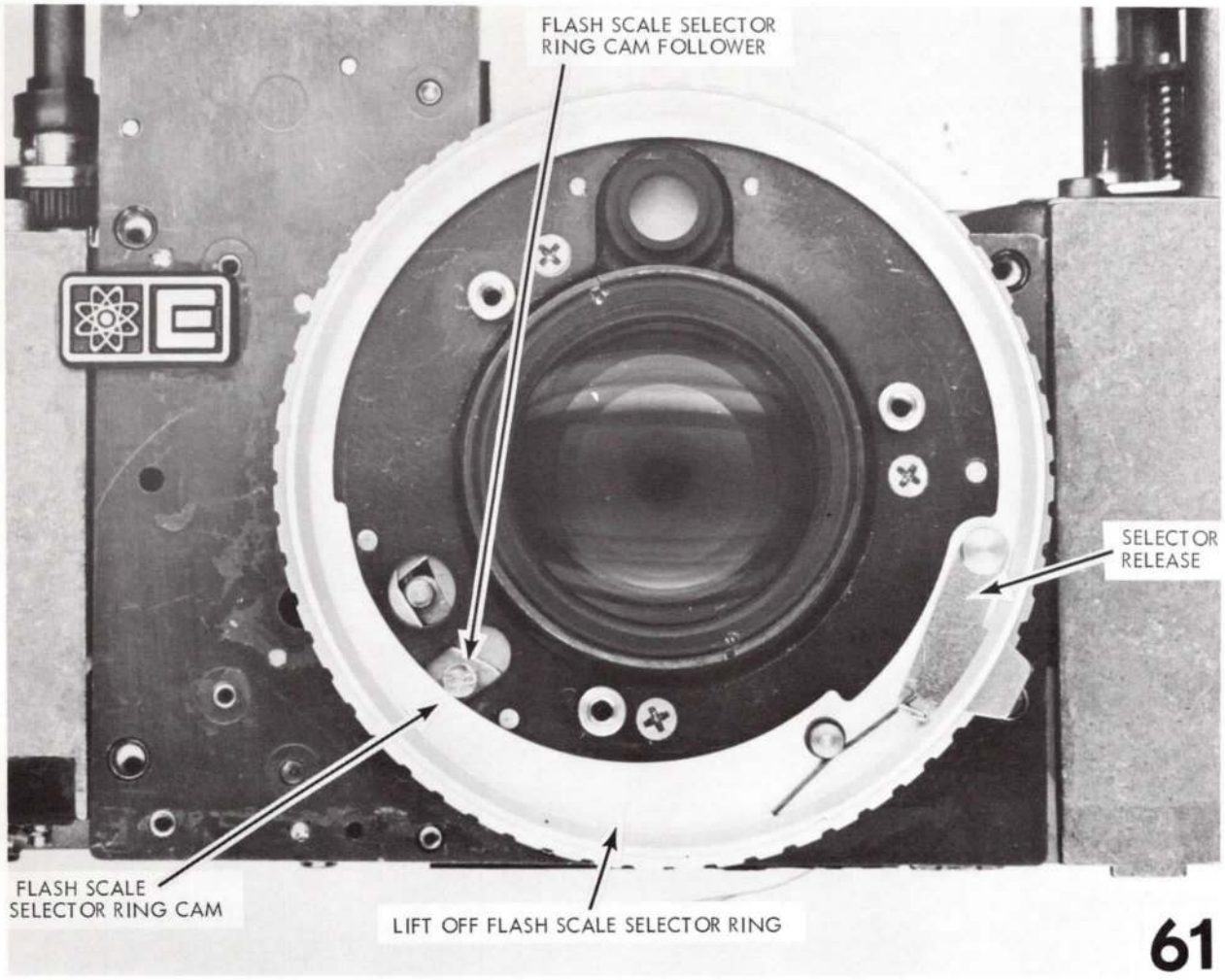

PHOTOCELL LIGHT DIFFUSER
LIFT OFF PHOTOCELL MASK RING
LOOSEN TWO SCREWS AND MOVE COUPLING STUD FOR LOW LIGHT LEVEL ADJUSTMENT



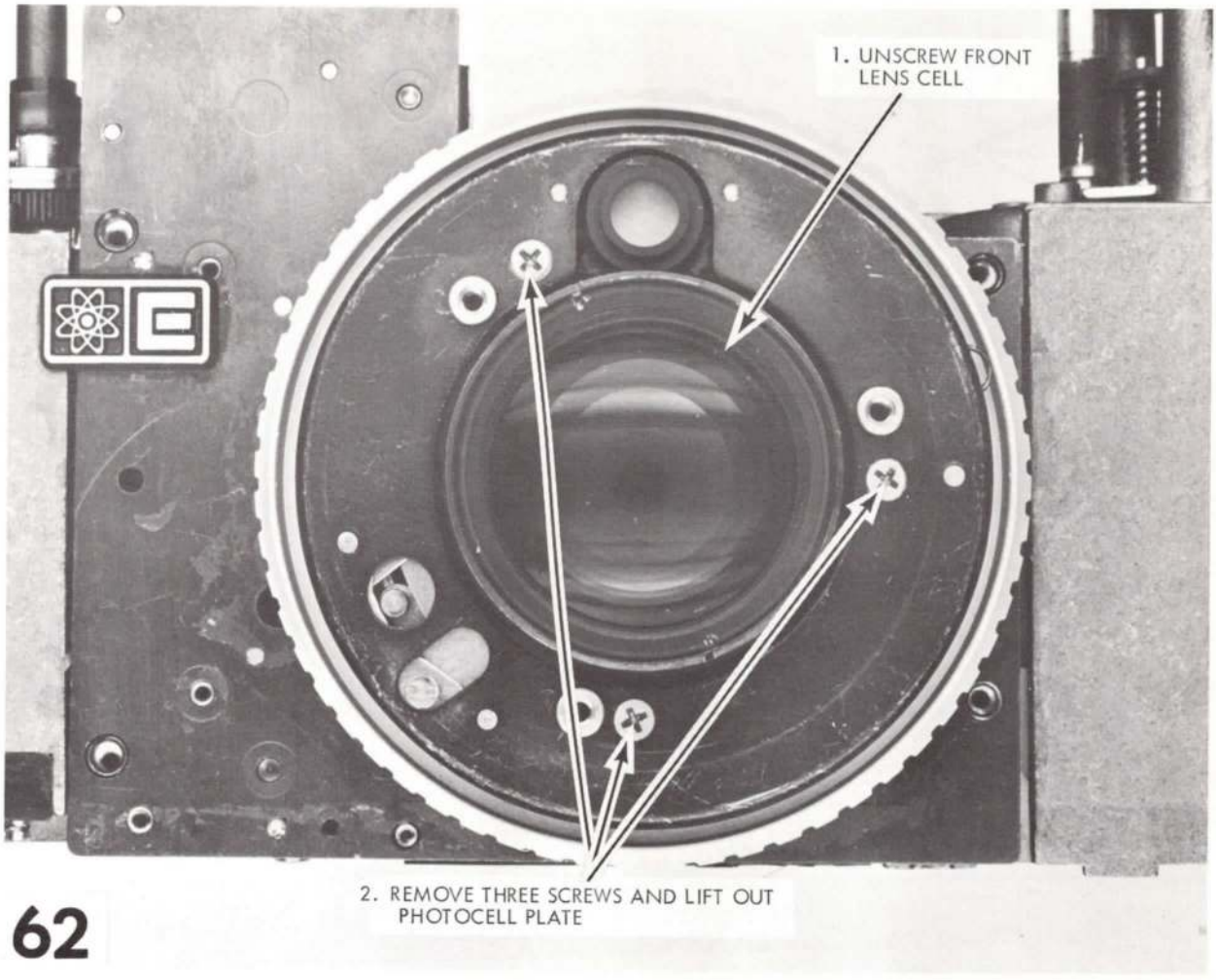
REMOVE THREE SCREWS AND LIFT OUT FILM SPEED SETTING RING AND FILTER MOUNTING RING AS ONE UNIT

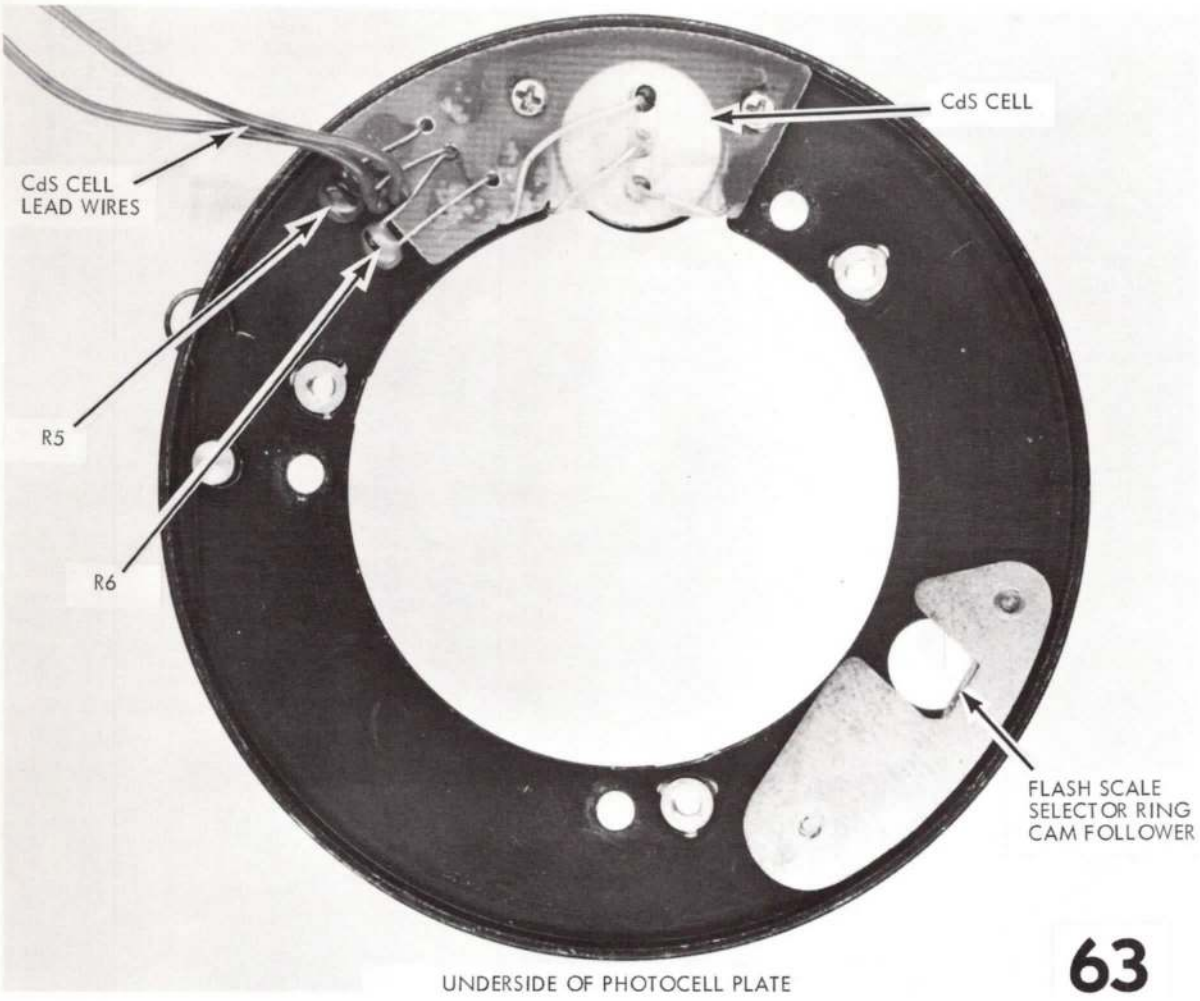
60

STUD ON PHOTOCELL MASK RING FITS IN THIS FORK ON FILM SPEED SETTING RING

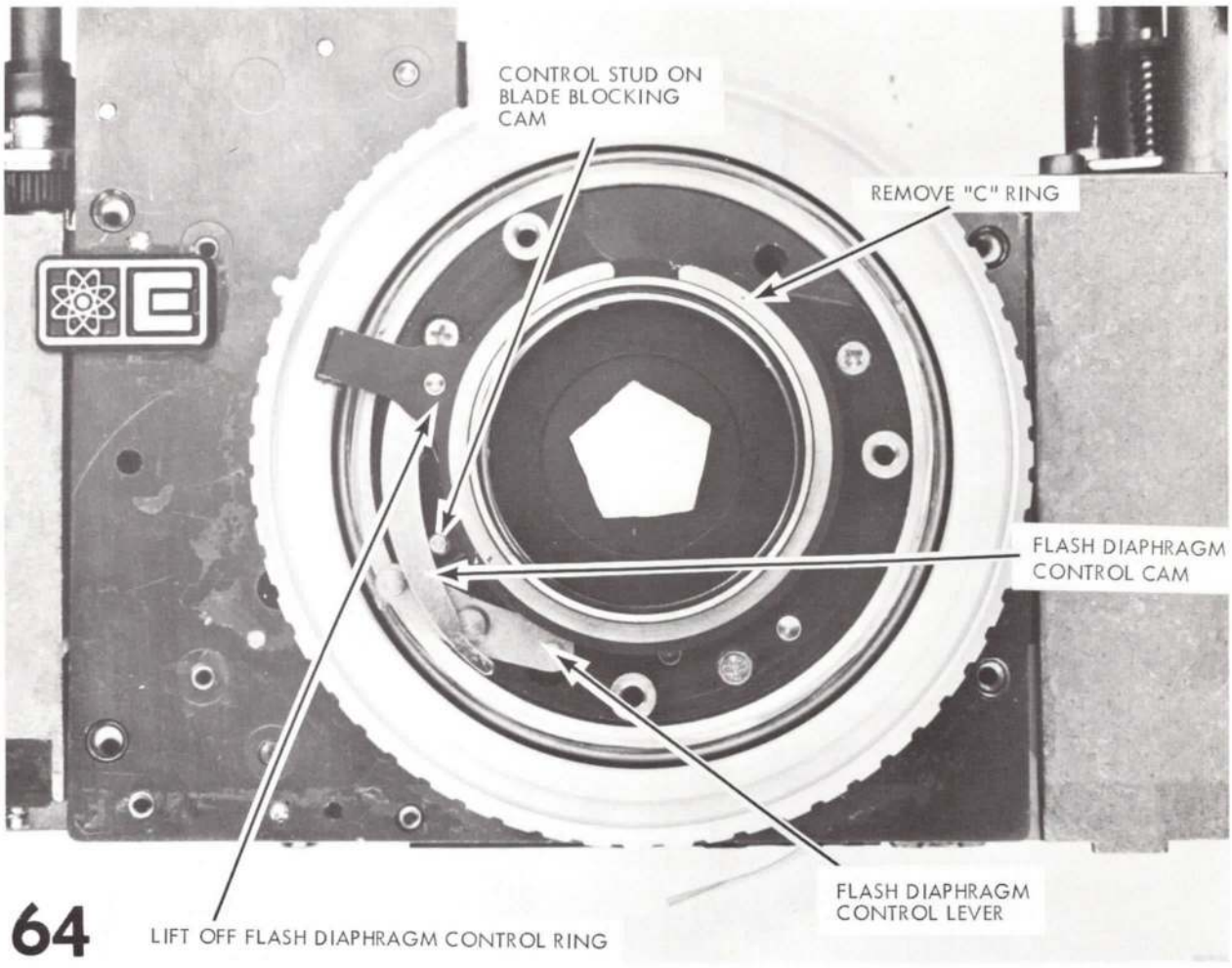

FLASH SCALE SELECTOR RING CAM FOLLOWER
SELECTOR RELEASE
FLASH SCALE SELECTOR RING CAM
LIFT OFF FLASH SCALE SELECTOR RING

61

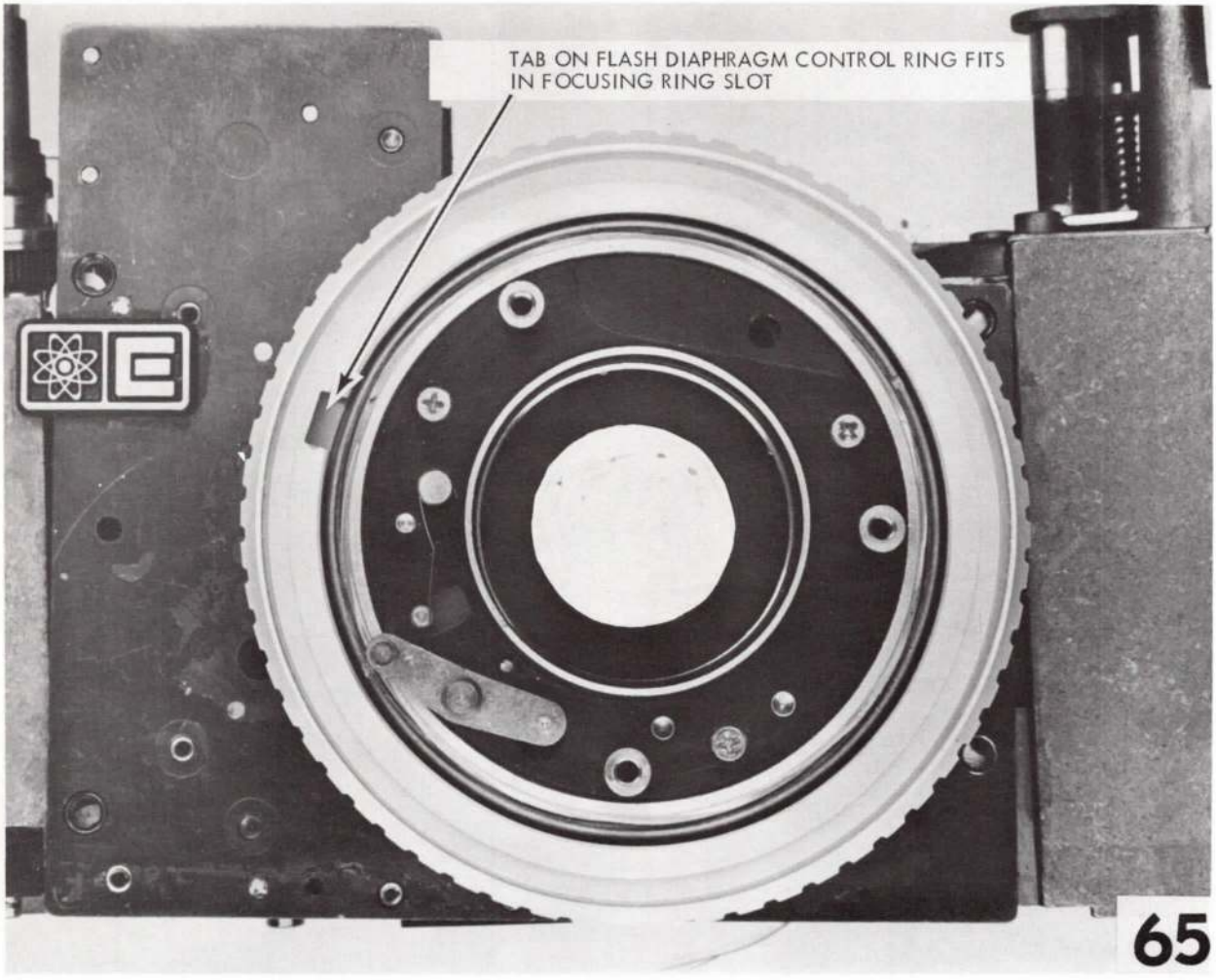

1. UNSCREW FRONT LENS CELL
2. REMOVE THREE SCREWS AND LIFT OUT PHOTOCELL PLATE



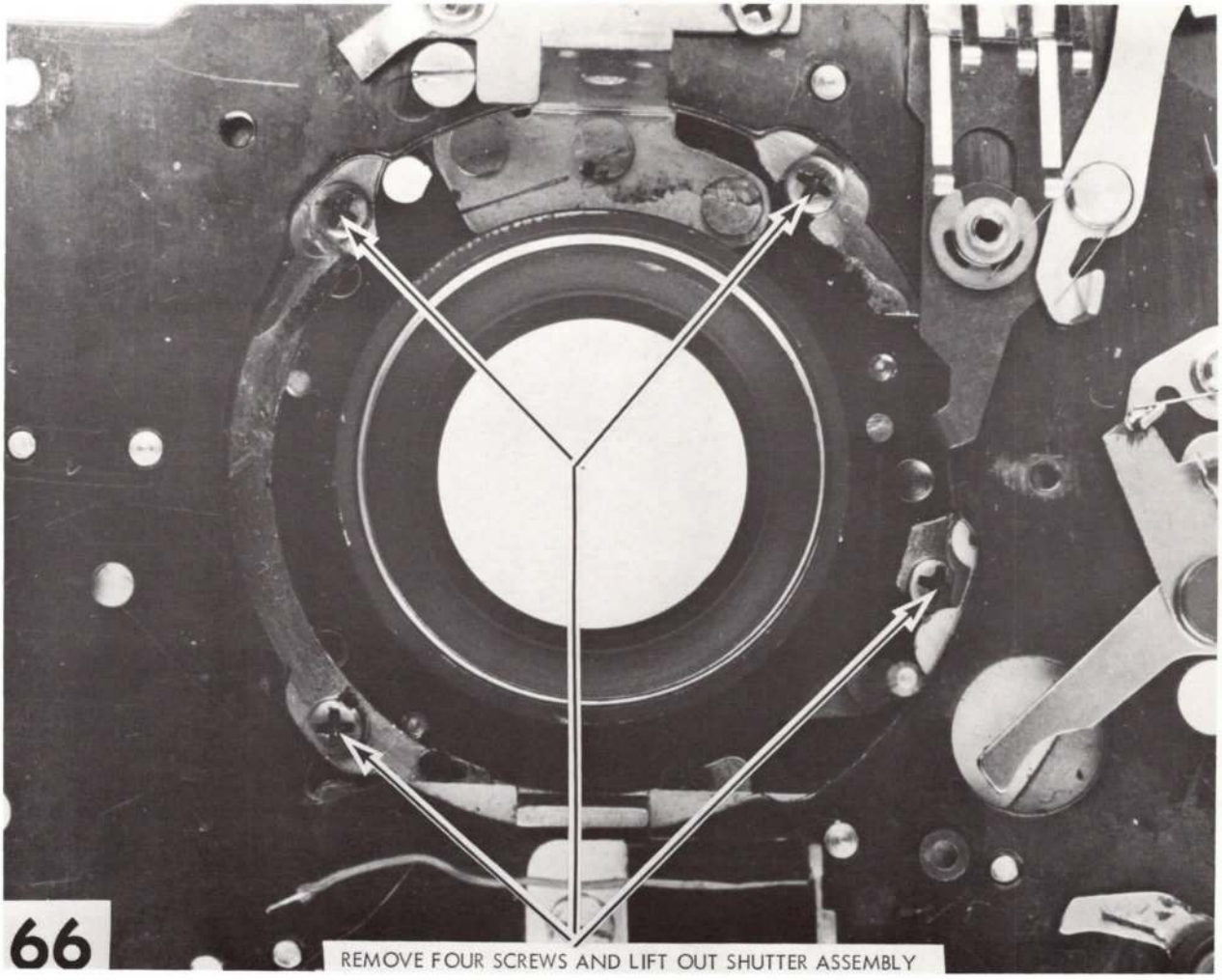
UNDERSIDE OF PHOTOCELL PLATE


CONTROL STUD ON BLADE BLOCKING CAM
REMOVE "C" RING
FLASH DIAPHRAGM CONTROL CAM
FLASH DIAPHRAGM CONTROL LEVER
LIFT OFF FLASH DIAPHRAGM CONTROL RING

64

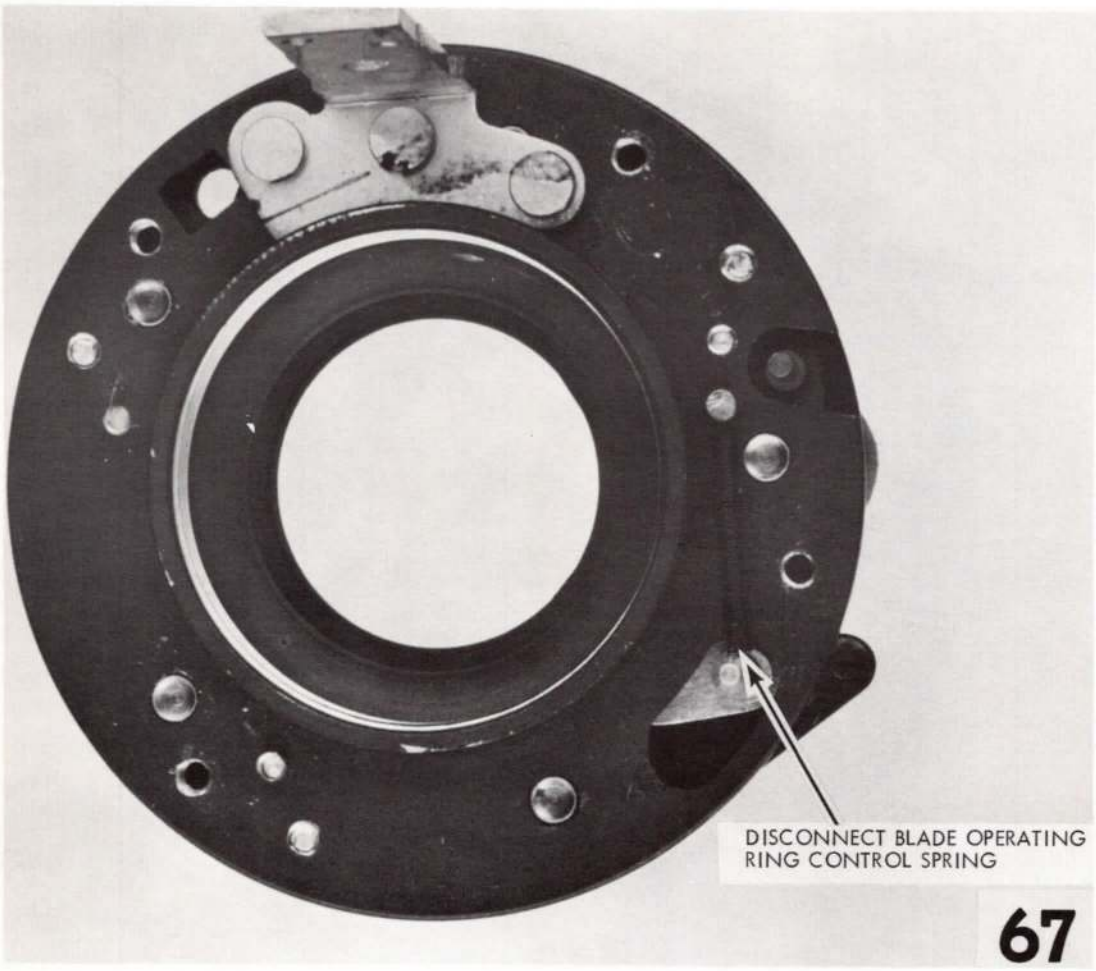

TAB ON FLASH DIAPHRAGM CONTROL RING FITS
IN FOCUSING RING SLOT

65

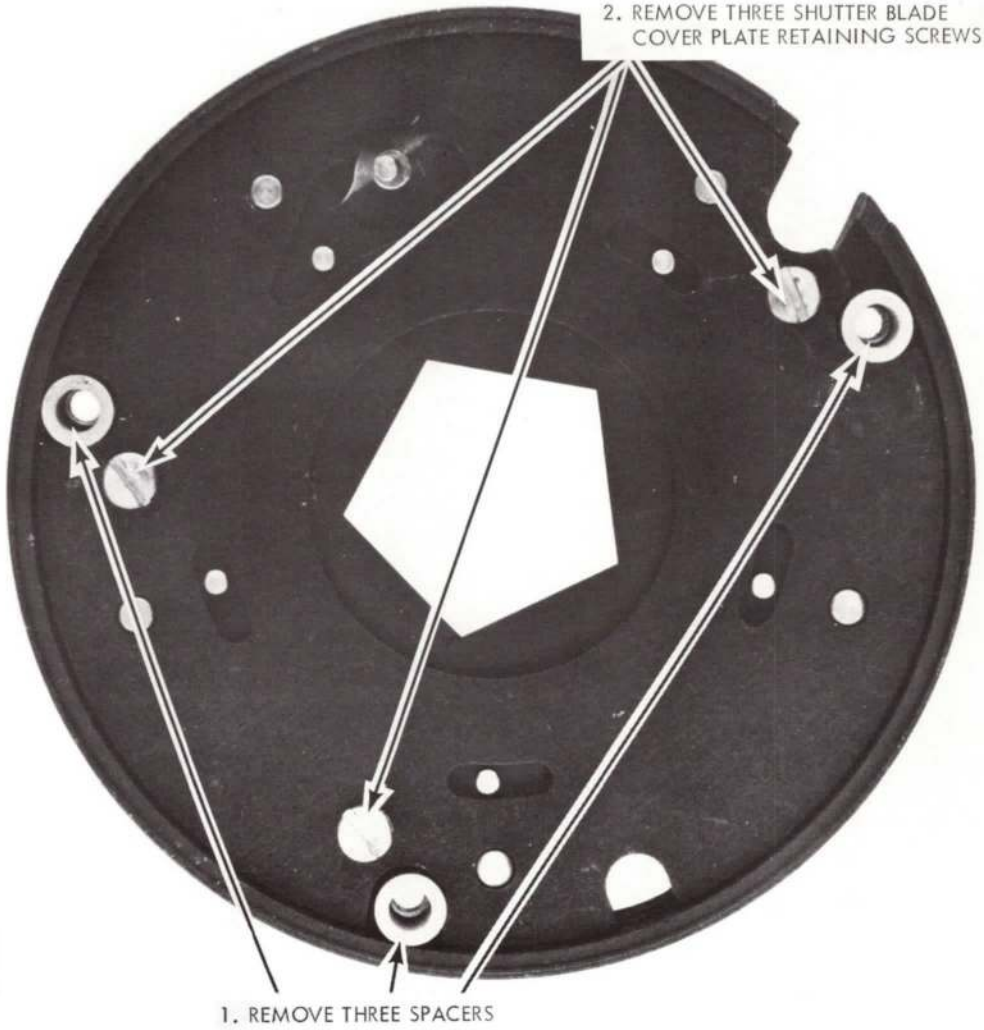


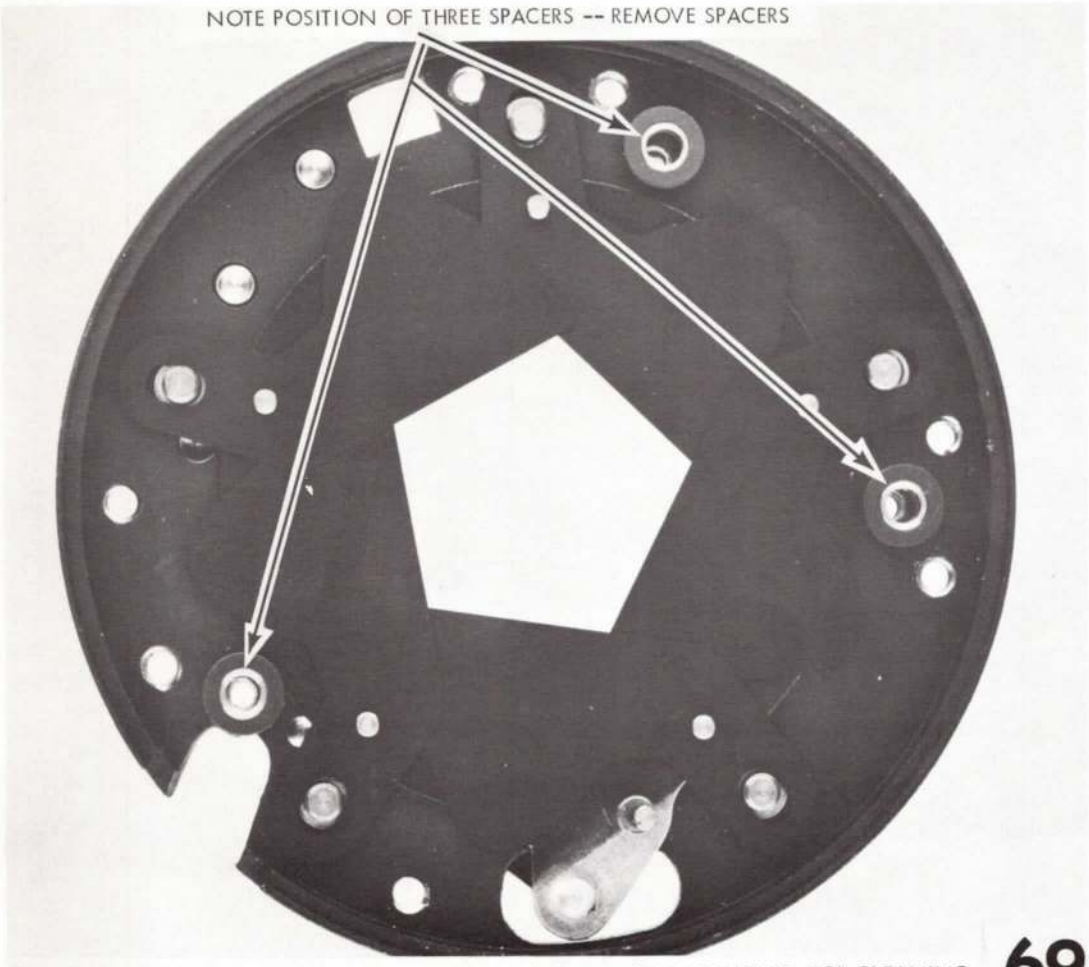
66

REMOVE FOUR SCREWS AND LIFT OUT SHUTTER ASSEMBLY

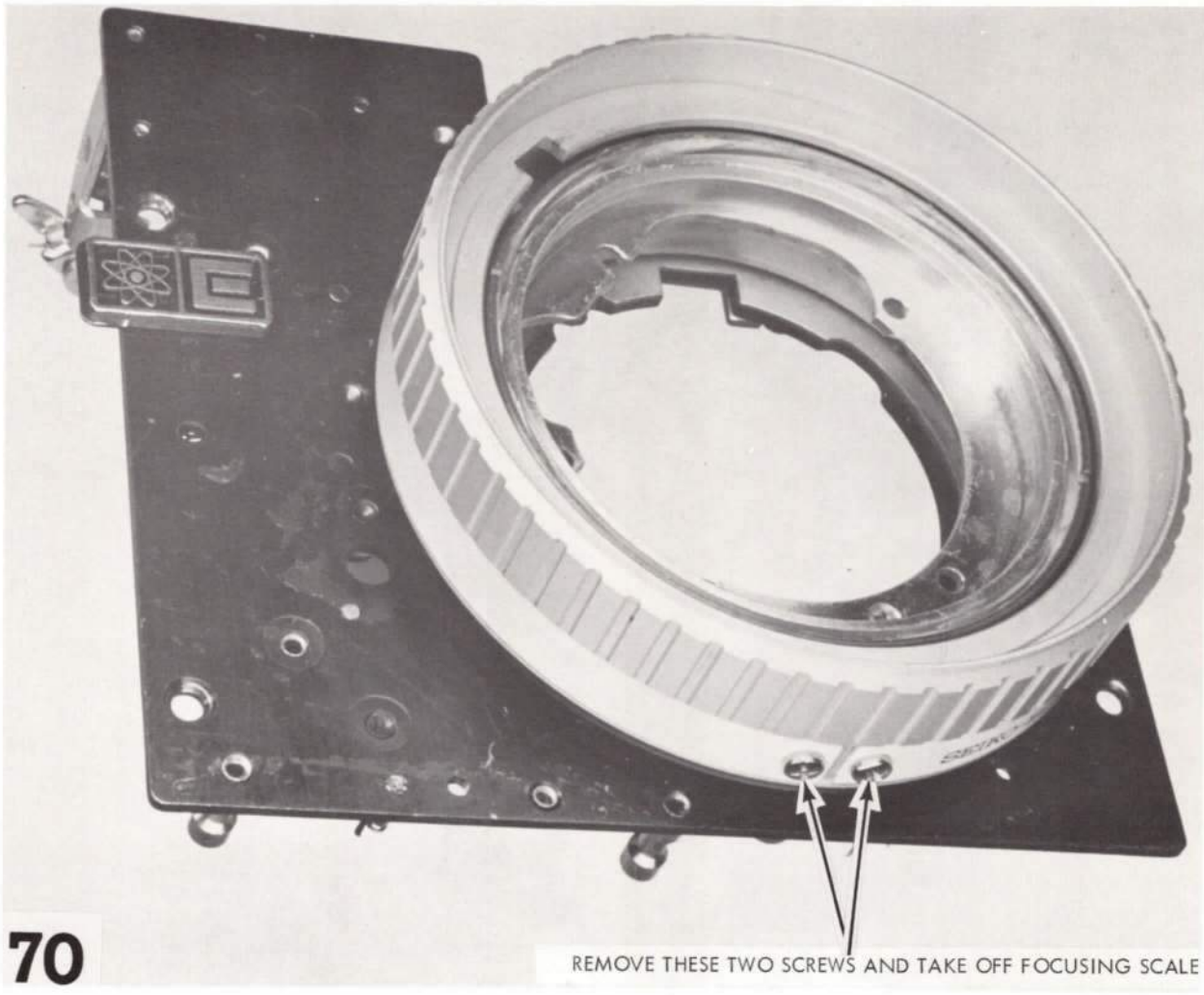


67


2. REMOVE THREE SHUTTER BLADE COVER PLATE RETAINING SCREWS
1. REMOVE THREE SPACERS

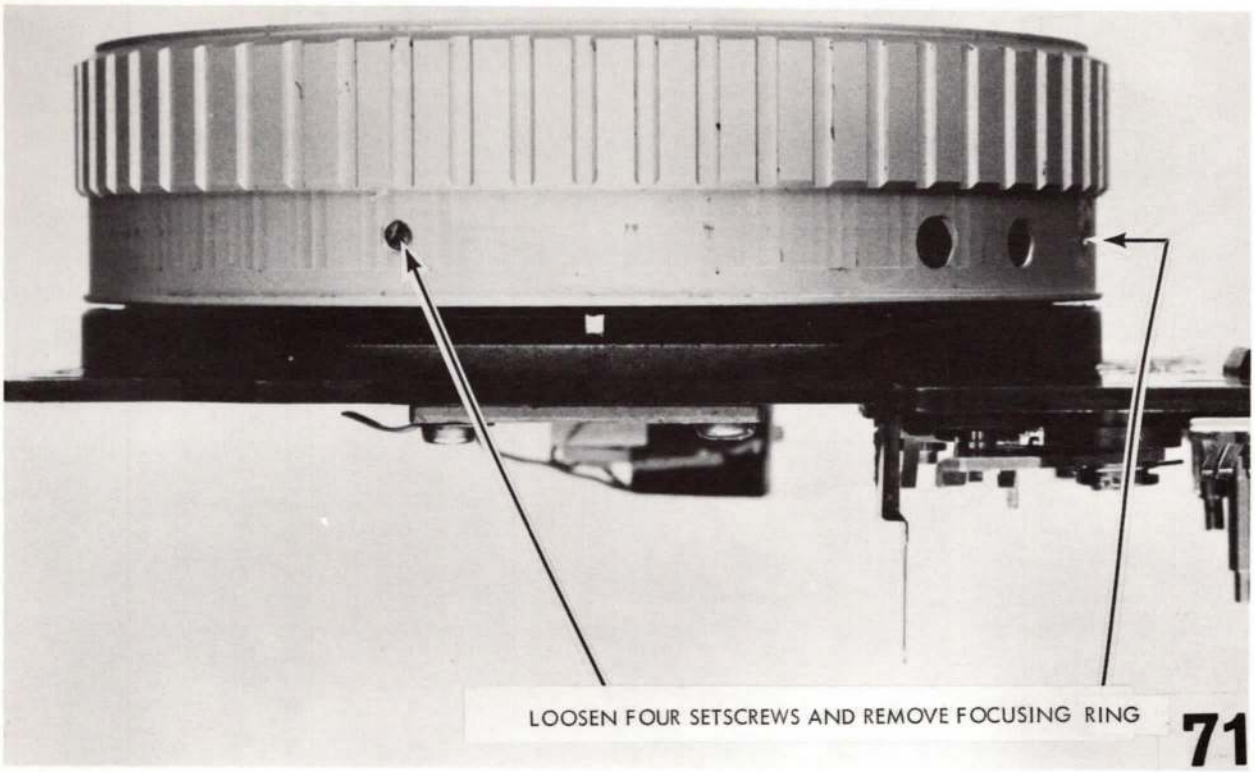


THE SHUTTER BLADES AND BLADE OPERATING RING CAN NOW BE REMOVED FOR CLEANING



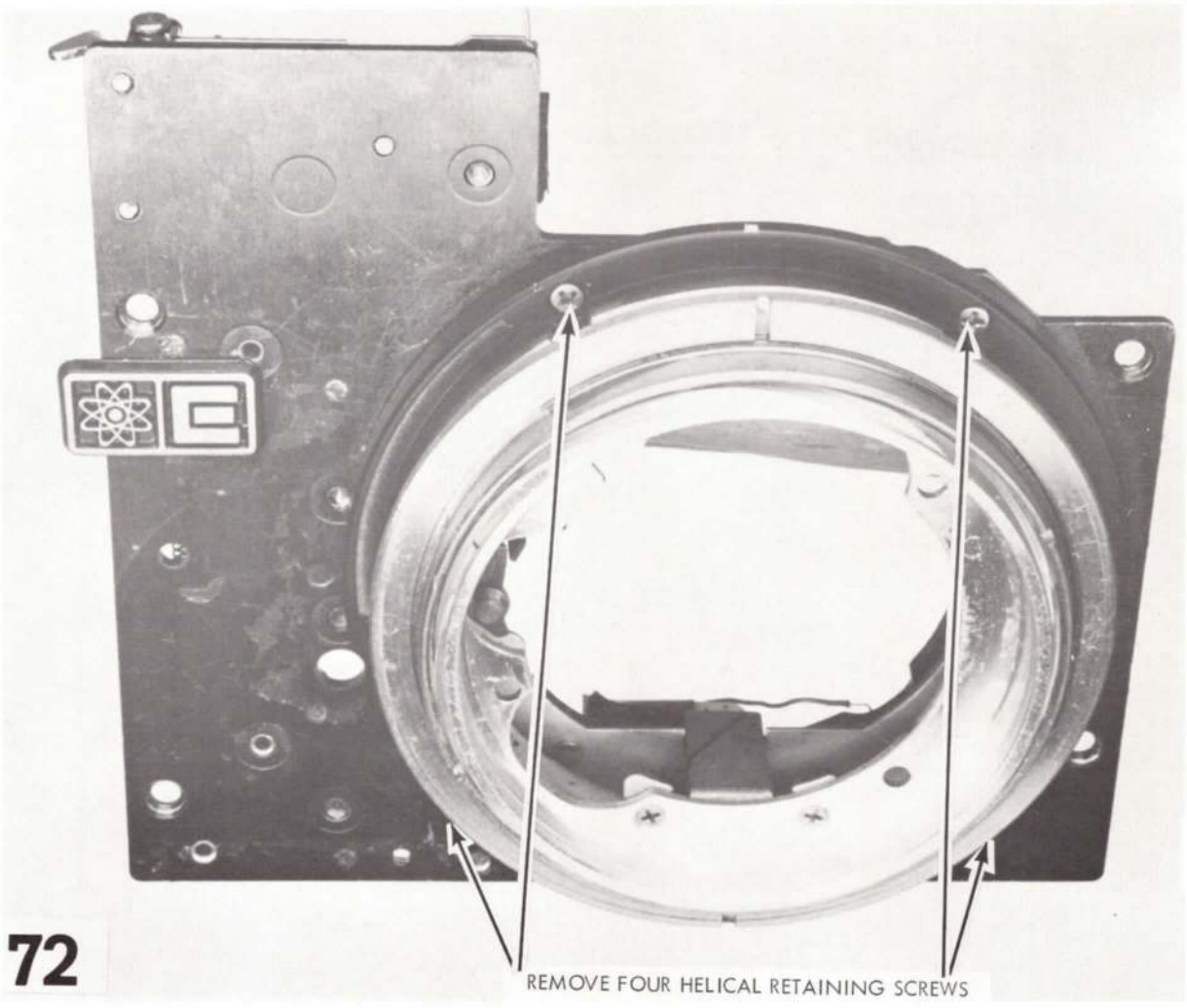
70

REMOVE THESE TWO SCREWS AND TAKE OFF FOCUSING SCALE

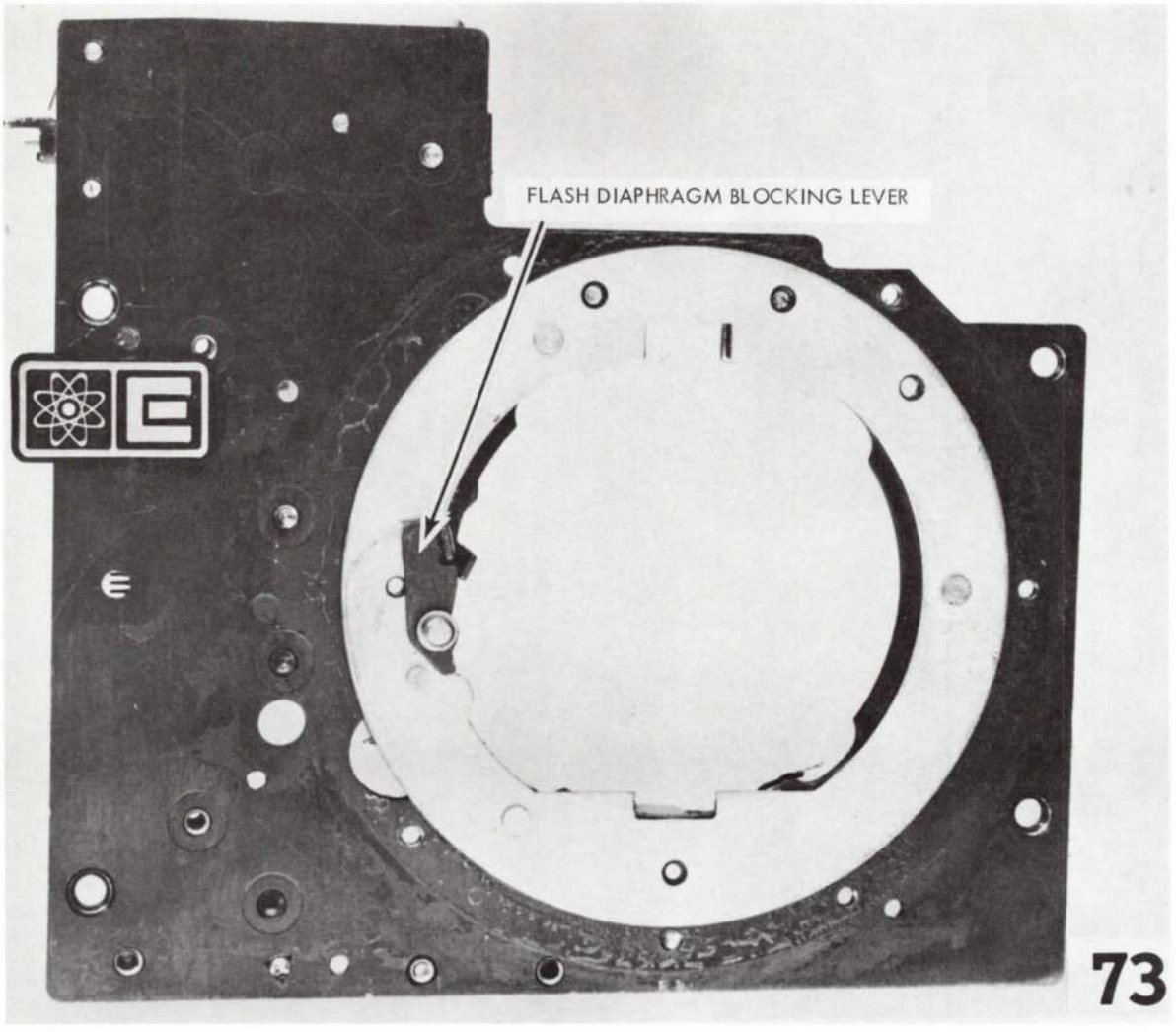


LOOSEN FOUR SETSCREWS AND REMOVE FOCUSING RING

71



72



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